

Stat Comp exam

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Problem 1:

```
setwd("C:/Users/Jason/Documents")

## read in CSV files
k <- read.csv(file.path('proj_k15.csv'), header=TRUE, stringsAsFactors=FALSE)
qb <- read.csv(file.path('proj_qb15.csv'), header=TRUE, stringsAsFactors=FALSE)
rb <- read.csv(file.path('proj_rb15.csv'), header=TRUE, stringsAsFactors=FALSE)
te <- read.csv(file.path('proj_te15.csv'), header=TRUE, stringsAsFactors=FALSE)
wr <- read.csv(file.path('proj_wr15.csv'), header=TRUE, stringsAsFactors=FALSE)
current <- read.csv(file.path('nfl_current15.csv'), header=TRUE, stringsAsFactors=FALSE)

# generate unique list of column names
cols <- unique(c(names(k), names(qb), names(rb), names(te), names(wr)))

# create a new column in each data.frame
# values are recycled
# concept: ?Extract
k[, 'pos'] <- 'k'
qb[, 'pos'] <- 'qb'
rb[, 'pos'] <- 'rb'
te[, 'pos'] <- 'te'
wr[, 'pos'] <- 'wr'

# append 'pos' to unique column list
cols <- c(cols, 'pos')

# create common columns in each data.frame
# initialize values to zero
k[, setdiff(cols, names(k))] <- 0
qb[, setdiff(cols, names(qb))] <- 0
rb[, setdiff(cols, names(rb))] <- 0
te[, setdiff(cols, names(te))] <- 0
wr[, setdiff(cols, names(wr))] <- 0

# combine data.frames by row, using consistent column order
x <- rbind(k[, cols], qb[, cols], rb[, cols], te[, cols], wr[, cols])

head(x)
```

```
##           PlayerName Team   fg  fga  xpt  fpts pass_att pass_cmp pass_yds
## 1 Stephen Gostkowski   NE 30.0 33.0 45.7 135.6         0         0         0
## 2      Justin Tucker   BAL 30.4 34.6 38.9 130.1         0         0         0
```

```
## 3      Connor Barth  DEN 27.4 31.4 47.1 129.3      0      0      0
## 4      Steven Hauschka SEA 29.5 34.1 40.8 129.2      0      0      0
## 5      Mason Crosby   GB 27.3 32.8 47.2 129.0      0      0      0
## 6      Cody Parkey    PHI 28.3 32.7 43.6 128.5      0      0      0
##   pass_tds pass_ints rush_att rush_yds rush_tds fumbles rec_att rec_yds
## 1         0         0         0         0         0         0         0         0
## 2         0         0         0         0         0         0         0         0
## 3         0         0         0         0         0         0         0         0
## 4         0         0         0         0         0         0         0         0
## 5         0         0         0         0         0         0         0         0
## 6         0         0         0         0         0         0         0         0
##   rec_tds pos
## 1         0  k
## 2         0  k
## 3         0  k
## 4         0  k
## 5         0  k
## 6         0  k
```

```
for(i in seq(nrow(x))){
  if (x[i,"Team"]=="CLE"
      | x[i,"Team"]=="NO"
      | x[i,"Team"]=="NYG"
      | x[i,"Team"]=="PIT") x[i,3:18] <- x[i,3:18]*(10/16)
  if (x[i,"Team"]!="CLE"
      & x[i,"Team"] != "NO"
      & x[i,"Team"] != "NYG"
      & x[i,"Team"] != "PIT") x[i,3:18] <- x[i,3:18]*(9/16)
}
```

```
x <- x[order(-x[, "fpts"]),]
```

```
xkickers <- x[which(x[, "pos"]=="k"),]
topkickers <- xkickers[1:20,]
```

```
xqbs <- x[which(x[, "pos"]=="qb"),]
topqbs <- xqbs[1:20,]
```

```
xrbs <- x[which(x[, "pos"]=="rb"),]
toprbs <- xrbs[1:40,]
```

```
xwrs <- x[which(x[, "pos"]=="wr"),]
topwrs <- xwrs[1:60,]
```

```
xtes <- x[which(x[, "pos"]=="te"),]
toptes <- xtes[1:20,]
```

```
top_players <- rbind(topkickers,topqbs,toprbs,topwrs,toptes)
top_players <- top_players[order(-x[, "fpts"]),]
```

```
names(current)[1] <- "PlayerName"

fantasyfb <- merge(top_players,current,"PlayerName")

head(fantasyfb)
```

```
##      PlayerName Team      fg      fga      xpt      fpts pass_att pass_cmp
## 1      A.J. Green  CIN  0.0000  0.00000  0.0000  99.0000  0.0000  0.0000
## 2      Aaron Rodgers  GB  0.0000  0.00000  0.0000  180.7313  307.4625  199.0125
## 3      Adam Vinatieri  IND  15.4125  17.15625  25.0875  71.3250  0.0000  0.0000
## 4      Adrian Peterson  MIN  0.0000  0.00000  0.0000  127.3500  0.0000  0.0000
## 5      Alex Smith  KC  0.0000  0.00000  0.0000  129.3750  281.3625  175.5000
## 6      Alfred Blue  HOU  0.0000  0.00000  0.0000  55.0125  0.0000  0.0000
##      pass_yds pass_tds pass_ints rush_att rush_yds rush_tds fumbles
## 1      0.000  0.00000  0.00000  1.51875  9.61875  0.00000  1.23750
## 2  2458.294  19.40625  5.00625  27.61875  137.64375  1.12500  2.75625
## 3      0.000  0.00000  0.00000  0.00000  0.00000  0.00000  0.00000
## 4      0.000  0.00000  0.00000  159.58125  745.42500  5.51250  1.91250
## 5  1929.712  12.03750  6.18750  30.99375  154.46250  0.84375  2.13750
## 6      0.000  0.00000  0.00000  90.61875  353.92500  1.63125  0.56250
##      rec_att rec_yds rec_tds pos  Tm Pos Fmb Att.rush Yds.rush TD.rush
## 1  52.76250  724.9500  4.66875  wr  CIN  wr  1      0      0      0
## 2  0.00000  0.0000  0.00000  qb  GNB  qb  3      37     221     0
## 3  0.00000  0.0000  0.00000  k  IND  k  0      0      0      0
## 4  24.52500  185.5125  0.84375  rb  MIN  rb  5     195     961     5
## 5  0.00000  0.0000  0.00000  qb  KAN  qb  2      42     235     1
## 6  10.40625  86.8500  0.39375  rb  HOU  rb  1      86     295     1
##      Rec.catch Yds.catch TD.catch Cmp.pass Att.pass Yds.pass TD.pass Int.pass
## 1      55      769      4      0      0      0      0      0
## 2      0      0      0      198     313     2270     21     3
## 3      0      0      0      0      0      0      0      0
## 4      19     138      0      0      0      0      0      0
## 5      0      0      0      187     299     2173     10     3
## 6      9      64      0      0      0      0      0      0
##      FGA FGM XPM
## 1      0      0      0
## 2      0      0      0
## 3     13     11     21
## 4      0      0      0
## 5      0      0      0
## 6      0      0      0
```

```
projected_col=c('fg','fga','xpt','pass_att','pass_cmp','pass_yds','pass_tds','pass_ints',
               'rush_att','rush_yds','rush_tds','rec_att','rec_yds','rec_tds','fumbles')

observed_col=c("FGM","FGA","XPM","Att.pass","Cmp.pass","Yds.pass","TD.pass","Int.pass",
               "Att.rush","Yds.rush","TD.rush","Rec.catch","Yds.catch","TD.catch","Fmb")

fantasyresiduals <- cbind(fantasyfb[,c(1:2,19)],fantasyfb[,projected_col]-fantasyfb[,observed_col])

fantasyresiduals_k <- fantasyresiduals[which(fantasyresiduals[, "pos"]=="k"),]
```

```

fantasyresiduals_qb <- fantasyresiduals[which(fantasyresiduals[, "pos"]=="qb"),]
fantasyresiduals_rb <- fantasyresiduals[which(fantasyresiduals[, "pos"]=="rb"),]
fantasyresiduals_wr <- fantasyresiduals[which(fantasyresiduals[, "pos"]=="wr"),]
fantasyresiduals_te <- fantasyresiduals[which(fantasyresiduals[, "pos"]=="te"),]

fantasyresidual_allpositions <- list(fantasyresiduals_k,fantasyresiduals_qb,fantasyresiduals_rb,fantasyresiduals_wr,fantasyresiduals_te)
names(fantasyresidual_allpositions) <- c("k","qb","rb","wr","te")

```

Problem 2:

```

league <- function(stats,nTeams,cap,posReq,points){
  x <- list(stats,nTeams,cap,posReq,points)
  names(x) <- c("stats","nTeams","cap","posReq","points")
  class(x) <- "league"
  return(x)
}

##test

pos <- list(qb=1, rb=2, wr=3, te=1, k=1)
pnts <- list(fg=4, xpt=1, pass_yds=1/25, pass_tds=4, pass_ints=-2,
            rush_yds=1/10, rush_tds=6, fumbles=-2, rec_yds=1/20, rec_tds=6)
l <- league(stats=x, nTeams=10, cap=200, posReq=pos, points=pnts)
head(l)

```

```

## $stats
##           PlayerName Team      fg      fga      xpt      fpts
## 39         Drew Brees  NO  0.00000  0.00000  0.00000  184.31250
## 35         Andrew Luck  IND  0.00000  0.00000  0.00000  183.76875
## 36         Aaron Rodgers GB  0.00000  0.00000  0.00000  180.73125
## 37         Russell Wilson SEA 0.00000  0.00000  0.00000  168.58125
## 42         Ben Roethlisberger PIT 0.00000  0.00000  0.00000  167.62500
## 38         Peyton Manning DEN 0.00000  0.00000  0.00000  167.51250
## 40         Matt Ryan ATL  0.00000  0.00000  0.00000  158.90625
## 47         Eli Manning NYG 0.00000  0.00000  0.00000  158.75000
## 41         Cam Newton CAR 0.00000  0.00000  0.00000  153.61875
## 43         Tony Romo DAL  0.00000  0.00000  0.00000  150.80625
## 44         Matthew Stafford DET 0.00000  0.00000  0.00000  149.79375
## 45         Ryan Tannehill MIA 0.00000  0.00000  0.00000  147.76875
## 46         Philip Rivers SD  0.00000  0.00000  0.00000  145.12500
## 48         Colin Kaepernick SF  0.00000  0.00000  0.00000  141.35625
## 49         Joe Flacco BAL  0.00000  0.00000  0.00000  137.47500
## 50         Jay Cutler CHI  0.00000  0.00000  0.00000  136.40625
## 126        Le'Veon Bell PIT 0.00000  0.00000  0.00000  136.31250
## 51         Teddy Bridgewater MIN 0.00000  0.00000  0.00000  134.66250
## 443        Antonio Brown PIT 0.00000  0.00000  0.00000  132.62500
## 52         Carson Palmer ARI 0.00000  0.00000  0.00000  130.95000
## 53         Sam Bradford PHI  0.00000  0.00000  0.00000  130.50000
## 54         Alex Smith KC  0.00000  0.00000  0.00000  129.37500
## 122        Jamaal Charles KC  0.00000  0.00000  0.00000  129.26250
## 123        Marshawn Lynch SEA 0.00000  0.00000  0.00000  129.09375
## 124        Eddie Lacy GB  0.00000  0.00000  0.00000  127.96875
## 125        Adrian Peterson MIN 0.00000  0.00000  0.00000  127.35000

```

## 445	Odell Beckham Jr.	NYG	0.00000	0.00000	0.00000	124.81250
## 55	Andy Dalton	CIN	0.00000	0.00000	0.00000	124.53750
## 56	Marcus Mariota	TEN	0.00000	0.00000	0.00000	123.86250
## 57	Tom Brady	NE	0.00000	0.00000	0.00000	121.44375
## 58	Jameis Winston	TB	0.00000	0.00000	0.00000	121.10625
## 127	Matt Forte	CHI	0.00000	0.00000	0.00000	120.71250
## 128	C.J. Anderson	DEN	0.00000	0.00000	0.00000	117.67500
## 59	Blake Bortles	JAC	0.00000	0.00000	0.00000	116.71875
## 444	Demaryius Thomas	DEN	0.00000	0.00000	0.00000	116.66250
## 60	Derek Carr	OAK	0.00000	0.00000	0.00000	115.48125
## 61	Nick Foles	STL	0.00000	0.00000	0.00000	115.08750
## 62	Robert Griffin III	WAS	0.00000	0.00000	0.00000	114.97500
## 446	Dez Bryant	DAL	0.00000	0.00000	0.00000	112.10625
## 129	DeMarco Murray	PHI	0.00000	0.00000	0.00000	110.19375
## 130	LeSean McCoy	BUF	0.00000	0.00000	0.00000	109.63125
## 131	Jeremy Hill	CIN	0.00000	0.00000	0.00000	108.73125
## 447	Calvin Johnson	DET	0.00000	0.00000	0.00000	107.15625
## 134	Mark Ingram	NO	0.00000	0.00000	0.00000	106.93750
## 448	Julio Jones	ATL	0.00000	0.00000	0.00000	106.93125
## 449	Randall Cobb	GB	0.00000	0.00000	0.00000	105.41250
## 63	Josh McCown	CLE	0.00000	0.00000	0.00000	101.87500
## 132	Justin Forsett	BAL	0.00000	0.00000	0.00000	101.53125
## 133	Lamar Miller	MIA	0.00000	0.00000	0.00000	99.22500
## 450	A.J. Green	CIN	0.00000	0.00000	0.00000	99.00000
## 451	Alshon Jeffery	CHI	0.00000	0.00000	0.00000	95.96250
## 452	Mike Evans	TB	0.00000	0.00000	0.00000	93.54375
## 135	Alfred Morris	WAS	0.00000	0.00000	0.00000	93.43125
## 317	Rob Gronkowski	NE	0.00000	0.00000	0.00000	93.20625
## 455	Brandin Cooks	NO	0.00000	0.00000	0.00000	93.06250
## 136	Melvin Gordon	SD	0.00000	0.00000	0.00000	92.70000
## 453	T.Y. Hilton	IND	0.00000	0.00000	0.00000	92.36250
## 137	Frank Gore	IND	0.00000	0.00000	0.00000	92.19375
## 138	Lataavius Murray	OAK	0.00000	0.00000	0.00000	90.61875
## 139	Carlos Hyde	SF	0.00000	0.00000	0.00000	90.50625
## 454	Emmanuel Sanders	DEN	0.00000	0.00000	0.00000	89.71875
## 145	Rashad Jennings	NYG	0.00000	0.00000	0.00000	86.00000
## 140	Andre Ellington	ARI	0.00000	0.00000	0.00000	84.20625
## 456	DeAndre Hopkins	HOU	0.00000	0.00000	0.00000	83.19375
## 141	Joseph Randle	DAL	0.00000	0.00000	0.00000	82.74375
## 142	T.J. Yeldon	JAC	0.00000	0.00000	0.00000	82.40625
## 143	Jonathan Stewart	CAR	0.00000	0.00000	0.00000	82.18125
## 457	Jordan Matthews	PHI	0.00000	0.00000	0.00000	80.21250
## 151	Isaiah Crowell	CLE	0.00000	0.00000	0.00000	79.93750
## 64	Brian Hoyer	HOU	0.00000	0.00000	0.00000	79.20000
## 144	LeGarrette Blount	NE	0.00000	0.00000	0.00000	78.86250
## 458	Julian Edelman	NE	0.00000	0.00000	0.00000	78.80625
## 65	Ryan Fitzpatrick	NYJ	0.00000	0.00000	0.00000	78.75000
## 459	DeSean Jackson	WAS	0.00000	0.00000	0.00000	78.07500
## 146	Joique Bell	DET	0.00000	0.00000	0.00000	77.17500
## 460	Andre Johnson	IND	0.00000	0.00000	0.00000	76.72500
## 461	Golden Tate	DET	0.00000	0.00000	0.00000	76.61250
## 1	Stephen Gostkowski	NE	16.87500	18.56250	25.70625	76.27500
## 462	Keenan Allen	SD	0.00000	0.00000	0.00000	75.31875
## 318	Jimmy Graham	SEA	0.00000	0.00000	0.00000	75.26250

## 471	Martavis Bryant	PIT	0.00000	0.00000	0.00000	75.06250
## 463	Sammy Watkins	BUF	0.00000	0.00000	0.00000	75.03750
## 10	Garrett Hartley	PIT	17.25000	20.50000	23.18750	75.00000
## 147	Arian Foster	HOU	0.00000	0.00000	0.00000	74.70000
## 148	Todd Gurley	STL	0.00000	0.00000	0.00000	74.70000
## 464	Davante Adams	GB	0.00000	0.00000	0.00000	74.36250
## 155	C.J. Spiller	NO	0.00000	0.00000	0.00000	73.37500
## 149	Christopher Ivory	NYJ	0.00000	0.00000	0.00000	73.23750
## 13	Dustin Hopkins	NO	15.56250	18.56250	26.50000	73.18750
## 2	Justin Tucker	BAL	17.10000	19.46250	21.88125	73.18125
## 14	Josh Brown	NYG	16.50000	18.62500	23.62500	73.12500
## 465	Jeremy Maclin	KC	0.00000	0.00000	0.00000	73.12500
## 3	Connor Barth	DEN	15.41250	17.66250	26.49375	72.73125
## 4	Steven Hauschka	SEA	16.59375	19.18125	22.95000	72.67500
## 466	Brandon Marshall	NYJ	0.00000	0.00000	0.00000	72.67500
## 5	Mason Crosby	GB	15.35625	18.45000	26.55000	72.56250
## 150	Tevin Coleman	ATL	0.00000	0.00000	0.00000	72.39375
## 6	Cody Parkey	PHI	15.91875	18.39375	24.52500	72.28125
## 152	Giovani Bernard	CIN	0.00000	0.00000	0.00000	71.38125
## 7	Adam Vinatieri	IND	15.41250	17.15625	25.08750	71.32500
## 467	Vincent Jackson	TB	0.00000	0.00000	0.00000	70.76250
## 8	Dan Bailey	DAL	14.45625	16.53750	26.32500	69.58125
## 484	Marques Colston	NO	0.00000	0.00000	0.00000	69.25000
## 153	Ameer Abdullah	DET	0.00000	0.00000	0.00000	68.96250
## 154	Devonta Freeman	ATL	0.00000	0.00000	0.00000	68.85000
## 9	Matt Bryant	ATL	15.69375	17.88750	21.60000	68.62500
## 468	Amari Cooper	OAK	0.00000	0.00000	0.00000	68.40000
## 469	Mike Wallace	MIN	0.00000	0.00000	0.00000	68.23125
## 485	Victor Cruz	NYG	0.00000	0.00000	0.00000	68.12500
## 470	Jarvis Landry	MIA	0.00000	0.00000	0.00000	67.72500
## 319	Greg Olsen	CAR	0.00000	0.00000	0.00000	67.50000
## 11	Chandler Catanzaro	ARI	16.14375	18.45000	18.78750	67.33125
## 472	Eric Decker	NYJ	0.00000	0.00000	0.00000	67.16250
## 473	Steve Smith	BAL	0.00000	0.00000	0.00000	67.05000
## 12	Dan Carpenter	BUF	15.97500	18.16875	18.73125	66.60000
## 474	Roddy White	ATL	0.00000	0.00000	0.00000	66.60000
## 475	Anquan Boldin	SF	0.00000	0.00000	0.00000	66.15000
## 476	Allen Robinson	JAC	0.00000	0.00000	0.00000	66.09375
## 320	Travis Kelce	KC	0.00000	0.00000	0.00000	65.86875
## 477	Michael Floyd	ARI	0.00000	0.00000	0.00000	65.02500
## 478	Charles Johnson	MIN	0.00000	0.00000	0.00000	64.80000
## 15	Blair Walsh	MIN	14.90625	18.78750	20.02500	64.74375
## 479	Nelson Agholor	PHI	0.00000	0.00000	0.00000	64.46250
## 16	Graham Gano	CAR	14.62500	17.21250	20.58750	64.40625
## 17	Caleb Sturgis	MIA	14.62500	18.56250	20.47500	64.35000
## 480	Brandon LaFell	NE	0.00000	0.00000	0.00000	64.35000
## 481	Torrey Smith	SF	0.00000	0.00000	0.00000	64.06875
## 18	Cairo Santos	KC	14.23125	17.10000	21.26250	64.01250
## 19	Phil Dawson	SF	15.30000	18.11250	18.11250	63.95625
## 156	Doug Martin	TB	0.00000	0.00000	0.00000	63.90000
## 20	Nick Novak	SD	14.40000	16.87500	20.75625	63.84375
## 482	Larry Fitzgerald	ARI	0.00000	0.00000	0.00000	63.11250
## 483	John Brown	ARI	0.00000	0.00000	0.00000	63.11250
## 30	Travis Coons	CLE	14.81250	17.81250	18.75000	63.06250

## 21	Nick Folk	NYJ	15.07500	17.71875	17.77500	62.94375
## 158	Shane Vereen	NYG	0.00000	0.00000	0.00000	62.93750
## 22	Randy Bullock	HOU	15.13125	18.28125	17.60625	62.88750
## 23	Greg Zuerlein	STL	14.90625	17.88750	18.11250	62.77500
## 321	Martellus Bennett	CHI	0.00000	0.00000	0.00000	62.66250
## 24	Mike Nugent	CIN	13.89375	16.93125	19.96875	61.53750
## 25	Matt Prater	DET	13.44375	16.03125	20.81250	61.08750
## 32	Carey Spear	CLE	14.75000	17.75000	16.56250	60.81250
## 322	Jason Witten	DAL	0.00000	0.00000	0.00000	60.80625
## 157	Ryan Mathews	PHI	0.00000	0.00000	0.00000	59.90625
## 486	Devin Funchess	CAR	0.00000	0.00000	0.00000	59.90625
## 493	Rueben Randle	NYG	0.00000	0.00000	0.00000	59.75000
## 487	Pierre Garcon	WAS	0.00000	0.00000	0.00000	59.68125
## 26	Kai Forbath	WAS	13.66875	16.03125	18.56250	59.62500
## 27	Sebastian Janikowski	OAK	14.17500	16.76250	16.98750	59.45625
## 488	Kendall Wright	TEN	0.00000	0.00000	0.00000	59.40000
## 489	Terrance Williams	DAL	0.00000	0.00000	0.00000	59.23125
## 28	Robbie Gould	CHI	13.10625	15.91875	19.80000	59.17500
## 495	Dwayne Bowe	CLE	0.00000	0.00000	0.00000	59.12500
## 490	Malcom Floyd	SD	0.00000	0.00000	0.00000	58.50000
## 491	Doug Baldwin	SEA	0.00000	0.00000	0.00000	58.16250
## 492	Breshad Perriman	BAL	0.00000	0.00000	0.00000	57.43125
## 323	Julius Thomas	JAC	0.00000	0.00000	0.00000	57.09375
## 29	Patrick Murray	TB	13.21875	15.58125	17.32500	56.92500
## 31	Ryan Succop	TEN	13.27500	16.03125	16.53750	56.47500
## 159	Bishop Sankey	TEN	0.00000	0.00000	0.00000	56.25000
## 160	Alfred Blue	HOU	0.00000	0.00000	0.00000	55.01250
## 66	Matt Cassel	BUF	0.00000	0.00000	0.00000	54.73125
## 33	Josh Scobee	JAC	12.99375	15.63750	15.52500	54.50625
## 324	Zach Ertz	PHI	0.00000	0.00000	0.00000	53.88750
## 494	Eddie Royal	CHI	0.00000	0.00000	0.00000	53.71875
## 161	Tre Mason	STL	0.00000	0.00000	0.00000	53.38125
## 496	Brian Quick	STL	0.00000	0.00000	0.00000	52.81875
## 497	Kenny Stills	MIA	0.00000	0.00000	0.00000	52.76250
## 325	Delanie Walker	TEN	0.00000	0.00000	0.00000	50.96250
## 332	Heath Miller	PIT	0.00000	0.00000	0.00000	50.81250
## 67	Tyrod Taylor	BUF	0.00000	0.00000	0.00000	50.62500
## 498	Kenny Britt	STL	0.00000	0.00000	0.00000	50.45625
## 499	Percy Harvin	BUF	0.00000	0.00000	0.00000	49.83750
## 326	Jordan Cameron	MIA	0.00000	0.00000	0.00000	49.78125
## 327	Dwayne Allen	IND	0.00000	0.00000	0.00000	49.55625
## 162	Charles Sims	TB	0.00000	0.00000	0.00000	49.27500
## 328	Kyle Rudolph	MIN	0.00000	0.00000	0.00000	48.03750
## 500	Michael Crabtree	OAK	0.00000	0.00000	0.00000	48.03750
## 329	Coby Fleener	IND	0.00000	0.00000	0.00000	47.98125
## 501	Steve Johnson	SD	0.00000	0.00000	0.00000	47.92500
## 502	Devante Parker	MIA	0.00000	0.00000	0.00000	47.86875
## 68	Geno Smith	NYJ	0.00000	0.00000	0.00000	47.58750
## 330	Owen Daniels	DEN	0.00000	0.00000	0.00000	47.30625
## 163	Danny Woodhead	SD	0.00000	0.00000	0.00000	47.13750
## 337	Larry Donnell	NYG	0.00000	0.00000	0.00000	47.12500
## 168	Duke Johnson	CLE	0.00000	0.00000	0.00000	46.87500
## 331	Antonio Gates	SD	0.00000	0.00000	0.00000	46.85625
## 506	Markus Wheaton	PIT	0.00000	0.00000	0.00000	46.56250

## 507	Andrew Hawkins	CLE	0.00000	0.00000	0.00000	46.06250
## 503	Allen Hurns	JAC	0.00000	0.00000	0.00000	46.01250
## 508	Brandon Coleman	NO	0.00000	0.00000	0.00000	45.93750
## 164	Reggie Bush	SF	0.00000	0.00000	0.00000	45.61875
## 165	Darren McFadden	DAL	0.00000	0.00000	0.00000	45.28125
## 333	Jordan Reed	WAS	0.00000	0.00000	0.00000	45.28125
## 504	Marvin Jones	CIN	0.00000	0.00000	0.00000	44.38125
## 173	Andre Williams	NYG	0.00000	0.00000	0.00000	43.93750
## 505	Cody Latimer	DEN	0.00000	0.00000	0.00000	43.93125
## 511	Brian Hartline	CLE	0.00000	0.00000	0.00000	43.31250
## 166	Knile Davis	KC	0.00000	0.00000	0.00000	43.20000
## 334	Tyler Eifert	CIN	0.00000	0.00000	0.00000	43.20000
## 167	David Cobb	TEN	0.00000	0.00000	0.00000	42.69375
## 335	Austin Seferian-Jenkins	TB	0.00000	0.00000	0.00000	42.63750
## 336	Charles Clay	BUF	0.00000	0.00000	0.00000	42.52500
## 338	Vernon Davis	SF	0.00000	0.00000	0.00000	42.35625
## 169	Lorenzo Taliaferro	BAL	0.00000	0.00000	0.00000	41.90625
## 339	Jared Cook	STL	0.00000	0.00000	0.00000	41.85000
## 170	Darren Sproles	PHI	0.00000	0.00000	0.00000	41.62500
## 171	Roy Helu	OAK	0.00000	0.00000	0.00000	41.62500
## 172	Jonas Gray	NE	0.00000	0.00000	0.00000	41.23125
## 342	Josh Hill	NO	0.00000	0.00000	0.00000	41.12500
## 509	Jermaine Kearse	SEA	0.00000	0.00000	0.00000	40.66875
## 510	Greg Jennings	MIA	0.00000	0.00000	0.00000	39.54375
## 512	Nate Washington	HOU	0.00000	0.00000	0.00000	38.64375
## 340	Richard Rodgers	GB	0.00000	0.00000	0.00000	38.58750
## 174	Denard Robinson	JAC	0.00000	0.00000	0.00000	38.47500
## 513	Philly Brown	CAR	0.00000	0.00000	0.00000	38.30625
## 514	Cole Beasley	DAL	0.00000	0.00000	0.00000	38.25000
## 515	Jeff Janis	GB	0.00000	0.00000	0.00000	38.19375
## 516	Jerricho Cotchery	CAR	0.00000	0.00000	0.00000	38.19375
## 175	Ronnie Hillman	DEN	0.00000	0.00000	0.00000	37.46250
## 344	Benjamin Watson	NO	0.00000	0.00000	0.00000	37.31250
## 176	Lance Dunbar	DAL	0.00000	0.00000	0.00000	37.29375
## 341	Eric Ebron	DET	0.00000	0.00000	0.00000	37.06875
## 517	Robert Woods	BUF	0.00000	0.00000	0.00000	36.90000
## 177	David Johnson	ARI	0.00000	0.00000	0.00000	36.67500
## 178	Matt Jones	WAS	0.00000	0.00000	0.00000	36.39375
## 184	Terrance West	CLE	0.00000	0.00000	0.00000	36.00000
## 179	Fred Jackson	BUF	0.00000	0.00000	0.00000	35.83125
## 180	Daniel Herron	IND	0.00000	0.00000	0.00000	35.49375
## 518	Tavon Austin	STL	0.00000	0.00000	0.00000	35.49375
## 519	Phillip Dorsett	IND	0.00000	0.00000	0.00000	34.48125
## 520	Cecil Shorts	HOU	0.00000	0.00000	0.00000	34.48125
## 521	Leonard Hankerson	ATL	0.00000	0.00000	0.00000	34.31250
## 181	Ray Rice	FA	0.00000	0.00000	0.00000	34.08750
## 343	Ladarius Green	SD	0.00000	0.00000	0.00000	33.97500
## 182	James Starks	GB	0.00000	0.00000	0.00000	33.41250
## 69	Ryan Mallett	HOU	0.00000	0.00000	0.00000	33.35625
## 345	Mychal Rivera	OAK	0.00000	0.00000	0.00000	33.35625
## 346	Jace Amaro	NYJ	0.00000	0.00000	0.00000	32.85000
## 522	Dexter McCluster	TEN	0.00000	0.00000	0.00000	32.73750
## 183	Jerick McKinnon	MIN	0.00000	0.00000	0.00000	32.62500
## 523	Mohamed Sanu	CIN	0.00000	0.00000	0.00000	32.62500

## 524	Donte Moncrief	IND	0.00000	0.00000	0.00000	32.56875
## 187	DeAngelo Williams	PIT	0.00000	0.00000	0.00000	32.56250
## 525	Marqise Lee	JAC	0.00000	0.00000	0.00000	32.51250
## 347	Maxx Williams	BAL	0.00000	0.00000	0.00000	32.28750
## 526	Tyler Lockett	SEA	0.00000	0.00000	0.00000	32.28750
## 185	Damien Williams	MIA	0.00000	0.00000	0.00000	31.38750
## 535	Nick Toon	NO	0.00000	0.00000	0.00000	30.93750
## 186	Bilal Powell	NYJ	0.00000	0.00000	0.00000	30.37500
## 70	Jimmy Garoppolo	NE	0.00000	0.00000	0.00000	30.31875
## 527	Mike Brown	CAR	0.00000	0.00000	0.00000	30.31875
## 348	Jacob Tamme	ATL	0.00000	0.00000	0.00000	30.03750
## 528	Jarius Wright	MIN	0.00000	0.00000	0.00000	29.81250
## 529	Reggie Wayne	NE	0.00000	0.00000	0.00000	29.53125
## 530	Harry Douglas	TEN	0.00000	0.00000	0.00000	29.19375
## 531	Dorial Green-Beckham	TEN	0.00000	0.00000	0.00000	29.08125
## 188	James White	NE	0.00000	0.00000	0.00000	28.96875
## 532	Ty Montgomery	GB	0.00000	0.00000	0.00000	28.80000
## 533	Rod Streater	OAK	0.00000	0.00000	0.00000	28.80000
## 189	Benny Cunningham	STL	0.00000	0.00000	0.00000	28.68750
## 190	Robert Turbin	SEA	0.00000	0.00000	0.00000	28.63125
## 534	Andre Roberts	WAS	0.00000	0.00000	0.00000	28.51875
## 191	Chris Johnson	ARI	0.00000	0.00000	0.00000	28.06875
## 349	Brent Celek	PHI	0.00000	0.00000	0.00000	28.06875
## 536	Riley Cooper	PHI	0.00000	0.00000	0.00000	27.78750
## 192	Theo Riddick	DET	0.00000	0.00000	0.00000	27.61875
## 193	Dexter McCluster	TEN	0.00000	0.00000	0.00000	27.33750
## 194	Branden Oliver	SD	0.00000	0.00000	0.00000	27.33750
## 352	Rob Housler	CLE	0.00000	0.00000	0.00000	27.31250
## 537	Devin Smith	NYJ	0.00000	0.00000	0.00000	27.16875
## 538	Jeremy Kerley	NYJ	0.00000	0.00000	0.00000	27.05625
## 539	Andre Holmes	OAK	0.00000	0.00000	0.00000	26.83125
## 540	Justin Hunter	TEN	0.00000	0.00000	0.00000	26.83125
## 541	Cordarrelle Patterson	MIN	0.00000	0.00000	0.00000	26.71875
## 551	Taylor Gabriel	CLE	0.00000	0.00000	0.00000	26.50000
## 542	Chris Conley	KC	0.00000	0.00000	0.00000	25.93125
## 543	Jaelen Strong	HOU	0.00000	0.00000	0.00000	25.59375
## 544	Danny Amendola	NE	0.00000	0.00000	0.00000	25.53750
## 195	Mike Tolbert	CAR	0.00000	0.00000	0.00000	25.42500
## 545	Kamar Aiken	BAL	0.00000	0.00000	0.00000	25.36875
## 196	Javorius Allen	BAL	0.00000	0.00000	0.00000	25.14375
## 546	Albert Wilson	KC	0.00000	0.00000	0.00000	24.97500
## 547	Kevin White	CHI	0.00000	0.00000	0.00000	24.75000
## 350	Virgil Green	DEN	0.00000	0.00000	0.00000	24.58125
## 351	Garrett Graham	HOU	0.00000	0.00000	0.00000	24.58125
## 353	Lance Kendricks	STL	0.00000	0.00000	0.00000	24.52500
## 548	Louis Murphy	TB	0.00000	0.00000	0.00000	24.30000
## 549	De'Anthony Thomas	KC	0.00000	0.00000	0.00000	24.30000
## 354	Andrew Quarless	GB	0.00000	0.00000	0.00000	24.24375
## 355	Crockett Gillmore	BAL	0.00000	0.00000	0.00000	24.07500
## 356	Jeff Cumberland	NYJ	0.00000	0.00000	0.00000	24.01875
## 550	Stedman Bailey	STL	0.00000	0.00000	0.00000	23.85000
## 552	Marquess Wilson	CHI	0.00000	0.00000	0.00000	23.00625
## 197	Stevan Ridley	NYJ	0.00000	0.00000	0.00000	22.89375
## 198	Montee Ball	DEN	0.00000	0.00000	0.00000	22.83750

## 357	Gavin Escobar	DAL	0.00000	0.00000	0.00000	22.78125
## 200	Khiry Robinson	NO	0.00000	0.00000	0.00000	22.12500
## 199	Cameron Artis-Payne	CAR	0.00000	0.00000	0.00000	21.43125
## 358	Darren Fells	ARI	0.00000	0.00000	0.00000	21.09375
## 553	Hakeem Nicks	TEN	0.00000	0.00000	0.00000	20.75625
## 554	Justin Hardy	ATL	0.00000	0.00000	0.00000	20.30625
## 71	Johnny Manziel	CLE	0.00000	0.00000	0.00000	20.06250
## 359	Scott Chandler	NE	0.00000	0.00000	0.00000	19.96875
## 201	Jacquizz Rodgers	CHI	0.00000	0.00000	0.00000	19.85625
## 202	Toby Gerhart	JAC	0.00000	0.00000	0.00000	19.74375
## 360	Dion Sims	MIA	0.00000	0.00000	0.00000	19.46250
## 361	Derek Carrier	WAS	0.00000	0.00000	0.00000	19.35000
## 555	Marlon Brown	BAL	0.00000	0.00000	0.00000	19.18125
## 203	Josh Robinson	IND	0.00000	0.00000	0.00000	19.06875
## 556	Ted Ginn	CAR	0.00000	0.00000	0.00000	19.01250
## 362	Clive Walford	OAK	0.00000	0.00000	0.00000	18.73125
## 204	De'Anthony Thomas	KC	0.00000	0.00000	0.00000	18.67500
## 363	Jermaine Gresham	ARI	0.00000	0.00000	0.00000	18.45000
## 205	Jonathan Grimes	HOU	0.00000	0.00000	0.00000	18.33750
## 367	Daniel Fells	NYG	0.00000	0.00000	0.00000	18.25000
## 206	Bobby Rainey	TB	0.00000	0.00000	0.00000	18.16875
## 207	Brandon Bolden	NE	0.00000	0.00000	0.00000	18.11250
## 208	Jay Ajayi	MIA	0.00000	0.00000	0.00000	18.05625
## 364	Marcedes Lewis	JAC	0.00000	0.00000	0.00000	18.00000
## 365	Luke Willson	SEA	0.00000	0.00000	0.00000	17.55000
## 209	Chris Polk	HOU	0.00000	0.00000	0.00000	17.32500
## 557	Quinton Patton	SF	0.00000	0.00000	0.00000	17.32500
## 72	Kirk Cousins	WAS	0.00000	0.00000	0.00000	17.26875
## 366	Ryan Hewitt	CIN	0.00000	0.00000	0.00000	17.26875
## 210	Marcel Reece	OAK	0.00000	0.00000	0.00000	17.10000
## 211	Fozzy Whittaker	CAR	0.00000	0.00000	0.00000	17.04375
## 370	Matt Spaeth	PIT	0.00000	0.00000	0.00000	16.68750
## 558	Corey Fuller	DET	0.00000	0.00000	0.00000	16.59375
## 73	Mark Sanchez	PHI	0.00000	0.00000	0.00000	16.03125
## 212	Darrel Young	WAS	0.00000	0.00000	0.00000	15.58125
## 368	James O'Shaughnessy	KC	0.00000	0.00000	0.00000	15.46875
## 369	Ed Dickson	CAR	0.00000	0.00000	0.00000	15.30000
## 218	Austin Johnson	NO	0.00000	0.00000	0.00000	15.00000
## 559	Devin Hester	ATL	0.00000	0.00000	0.00000	14.90625
## 371	Tony Moeaki	ATL	0.00000	0.00000	0.00000	14.62500
## 560	Jason Avant	KC	0.00000	0.00000	0.00000	14.62500
## 213	Antone Smith	ATL	0.00000	0.00000	0.00000	14.40000
## 214	Shonn Greene	FA	0.00000	0.00000	0.00000	14.23125
## 215	Bruce Miller	SF	0.00000	0.00000	0.00000	14.00625
## 561	Chris Matthews	SEA	0.00000	0.00000	0.00000	13.78125
## 216	Zach Line	MIN	0.00000	0.00000	0.00000	13.66875
## 217	Matt Asiata	MIN	0.00000	0.00000	0.00000	13.55625
## 562	Jaron Brown	ARI	0.00000	0.00000	0.00000	13.27500
## 372	Anthony Fasano	TEN	0.00000	0.00000	0.00000	13.21875
## 373	C.J. Fiedorowicz	HOU	0.00000	0.00000	0.00000	13.21875
## 374	James Casey	DEN	0.00000	0.00000	0.00000	13.10625
## 563	Chris Hogan	BUF	0.00000	0.00000	0.00000	13.10625
## 219	Kendall Hunter	SF	0.00000	0.00000	0.00000	12.99375
## 564	Bruce Ellington	SF	0.00000	0.00000	0.00000	12.99375

## 220	Trent Richardson	OAK	0.00000	0.00000	0.00000	12.82500
## 221	Ka'Deem Carey	CHI	0.00000	0.00000	0.00000	12.54375
## 226	Dri Archer	PIT	0.00000	0.00000	0.00000	12.50000
## 565	Jeremy Ross	DET	0.00000	0.00000	0.00000	12.37500
## 222	Karlos Williams	BUF	0.00000	0.00000	0.00000	12.31875
## 223	Jeremy Langford	CHI	0.00000	0.00000	0.00000	12.26250
## 378	Gary Barnidge	CLE	0.00000	0.00000	0.00000	12.06250
## 375	Brandon Myers	TB	0.00000	0.00000	0.00000	11.98125
## 224	Joe Banyard	MIN	0.00000	0.00000	0.00000	11.86875
## 566	Jamison Crowder	WAS	0.00000	0.00000	0.00000	11.86875
## 567	Josh Huff	PHI	0.00000	0.00000	0.00000	11.86875
## 571	Sammie Coates	PIT	0.00000	0.00000	0.00000	11.75000
## 568	Ricardo Lockette	SEA	0.00000	0.00000	0.00000	11.70000
## 376	Levine Toilolo	ATL	0.00000	0.00000	0.00000	11.47500
## 377	Troy Niklas	ARI	0.00000	0.00000	0.00000	11.36250
## 381	Jim Dray	CLE	0.00000	0.00000	0.00000	11.31250
## 225	Derrick Coleman	SEA	0.00000	0.00000	0.00000	11.25000
## 227	John Kuhn	GB	0.00000	0.00000	0.00000	10.96875
## 569	Brandon Tate	CIN	0.00000	0.00000	0.00000	10.80000
## 570	Jerome Simpson	SF	0.00000	0.00000	0.00000	10.68750
## 576	Travis Benjamin	CLE	0.00000	0.00000	0.00000	10.62500
## 228	Stepfan Taylor	ARI	0.00000	0.00000	0.00000	10.57500
## 229	Ryan Williams	DAL	0.00000	0.00000	0.00000	10.57500
## 379	Dante Rosario	CHI	0.00000	0.00000	0.00000	10.57500
## 572	Kenny Bell	TB	0.00000	0.00000	0.00000	10.51875
## 573	Michael Campanaro	BAL	0.00000	0.00000	0.00000	10.40625
## 577	Preston Parker	NYG	0.00000	0.00000	0.00000	10.37500
## 380	Tyler Kroft	CIN	0.00000	0.00000	0.00000	10.35000
## 230	Christine Michael	SEA	0.00000	0.00000	0.00000	10.29375
## 382	Brandon Pettigrew	DET	0.00000	0.00000	0.00000	10.18125
## 231	Zac Stacy	NYJ	0.00000	0.00000	0.00000	10.12500
## 383	Joseph Fauria	DET	0.00000	0.00000	0.00000	10.06875
## 574	Kenbrell Thompson	OAK	0.00000	0.00000	0.00000	10.06875
## 74	E.J. Manuel	BUF	0.00000	0.00000	0.00000	9.84375
## 575	Rishard Matthews	MIA	0.00000	0.00000	0.00000	9.78750
## 582	Seantavius Jones	NO	0.00000	0.00000	0.00000	9.75000
## 578	Paul Richardson	SEA	0.00000	0.00000	0.00000	9.28125
## 232	Patrick DiMarco	ATL	0.00000	0.00000	0.00000	9.22500
## 233	Anthony Sherman	KC	0.00000	0.00000	0.00000	9.16875
## 579	Dontrelle Inman	SD	0.00000	0.00000	0.00000	9.16875
## 580	Rashad Greene	JAC	0.00000	0.00000	0.00000	8.83125
## 581	Jarrett Boykin	CAR	0.00000	0.00000	0.00000	8.83125
## 234	Juwan Thompson	DEN	0.00000	0.00000	0.00000	8.71875
## 384	Craig Stevens	TEN	0.00000	0.00000	0.00000	8.71875
## 235	Kyle Juszczyk	BAL	0.00000	0.00000	0.00000	8.49375
## 236	Jerome Felton	BUF	0.00000	0.00000	0.00000	8.43750
## 583	Miles Austin	PHI	0.00000	0.00000	0.00000	8.43750
## 385	MarQueis Gray	BUF	0.00000	0.00000	0.00000	8.32500
## 386	Lee Smith	OAK	0.00000	0.00000	0.00000	8.32500
## 237	Storm Johnson	JAC	0.00000	0.00000	0.00000	8.15625
## 238	Vick Ballard	IND	0.00000	0.00000	0.00000	8.10000
## 239	Jalston Fowler	TEN	0.00000	0.00000	0.00000	7.98750
## 244	Malcolm Johnson	CLE	0.00000	0.00000	0.00000	7.93750
## 240	James Develin	NE	0.00000	0.00000	0.00000	7.93125

## 241	Tyler Clutts	DAL	0.00000	0.00000	0.00000	7.87500
## 75	Kellen Moore	DET	0.00000	0.00000	0.00000	7.81875
## 387	Rhett Ellison	MIN	0.00000	0.00000	0.00000	7.76250
## 587	Corey Washington	NYG	0.00000	0.00000	0.00000	7.68750
## 588	Joseph Morgan	NO	0.00000	0.00000	0.00000	7.62500
## 388	Dennis Pitta	BAL	0.00000	0.00000	0.00000	7.59375
## 242	Tommy Bohanon	NYJ	0.00000	0.00000	0.00000	7.53750
## 584	Devin Street	DAL	0.00000	0.00000	0.00000	7.42500
## 249	Erik Lorig	NO	0.00000	0.00000	0.00000	7.31250
## 585	Jacoby Jones	SD	0.00000	0.00000	0.00000	7.31250
## 243	Robert Hughes	ARI	0.00000	0.00000	0.00000	7.20000
## 389	Vance McDonald	SF	0.00000	0.00000	0.00000	7.20000
## 390	Chris Gragg	BUF	0.00000	0.00000	0.00000	7.08750
## 391	MyCole Pruitt	MIN	0.00000	0.00000	0.00000	7.08750
## 245	Anthony Dixon	BUF	0.00000	0.00000	0.00000	7.03125
## 586	Andre Caldwell	DEN	0.00000	0.00000	0.00000	6.91875
## 76	B.J. Daniels	SEA	0.00000	0.00000	0.00000	6.80625
## 246	James Casey	DEN	0.00000	0.00000	0.00000	6.75000
## 247	Travaris Cadet	NE	0.00000	0.00000	0.00000	6.69375
## 392	Demetrius Harris	KC	0.00000	0.00000	0.00000	6.69375
## 248	Michael Burton	DET	0.00000	0.00000	0.00000	6.63750
## 253	Henry Hynoski	NYG	0.00000	0.00000	0.00000	6.43750
## 250	Jay Prosch	HOU	0.00000	0.00000	0.00000	6.41250
## 251	Ryan Hewitt	CIN	0.00000	0.00000	0.00000	6.41250
## 255	Josh Harris	PIT	0.00000	0.00000	0.00000	6.18750
## 591	Terrelle Pryor	CLE	0.00000	0.00000	0.00000	6.12500
## 252	Chris Thompson	WAS	0.00000	0.00000	0.00000	6.01875
## 256	Will Johnson	PIT	0.00000	0.00000	0.00000	6.00000
## 393	Cameron Brate	TB	0.00000	0.00000	0.00000	5.96250
## 77	Drew Stanton	ARI	0.00000	0.00000	0.00000	5.85000
## 78	Derek Anderson	CAR	0.00000	0.00000	0.00000	5.85000
## 394	Nic Jacobs	JAC	0.00000	0.00000	0.00000	5.79375
## 589	Walt Powell	NYJ	0.00000	0.00000	0.00000	5.68125
## 254	Daryl Richardson	NYJ	0.00000	0.00000	0.00000	5.62500
## 395	Jack Doyle	IND	0.00000	0.00000	0.00000	5.62500
## 590	T.J. Graham	NYJ	0.00000	0.00000	0.00000	5.62500
## 396	Gerell Robinson	MIA	0.00000	0.00000	0.00000	5.51250
## 397	Ryan Griffin	HOU	0.00000	0.00000	0.00000	5.45625
## 592	Saalim Hakim	NYJ	0.00000	0.00000	0.00000	5.45625
## 79	Brandon Weeden	DAL	0.00000	0.00000	0.00000	5.40000
## 398	Blake Bell	SF	0.00000	0.00000	0.00000	5.40000
## 598	Marlon Moore	CLE	0.00000	0.00000	0.00000	5.37500
## 593	Matt Slater	NE	0.00000	0.00000	0.00000	5.34375
## 399	Cooper Helfet	SEA	0.00000	0.00000	0.00000	5.28750
## 594	Jeff Maehl	PHI	0.00000	0.00000	0.00000	5.28750
## 257	Taiwan Jones	OAK	0.00000	0.00000	0.00000	5.23125
## 400	D.J. Williams	WAS	0.00000	0.00000	0.00000	5.23125
## 258	Fitzgerald Toussaint	BAL	0.00000	0.00000	0.00000	5.17500
## 259	Marion Grice	ARI	0.00000	0.00000	0.00000	5.06250
## 595	Austin Pettis	SD	0.00000	0.00000	0.00000	5.06250
## 80	Jimmy Clausen	CHI	0.00000	0.00000	0.00000	5.00625
## 596	Rashad Ross	WAS	0.00000	0.00000	0.00000	5.00625
## 81	Zach Mettenberger	TEN	0.00000	0.00000	0.00000	4.95000
## 260	Jorvorskie Lane	TB	0.00000	0.00000	0.00000	4.95000

## 597	Ryan Grant	WAS	0.00000	0.00000	0.00000	4.89375
## 261	Jeremy Stewart	DEN	0.00000	0.00000	0.00000	4.66875
## 262	Cory Harkey	STL	0.00000	0.00000	0.00000	4.66875
## 263	Rex Burkhead	CIN	0.00000	0.00000	0.00000	4.66875
## 599	Tandon Doss	JAC	0.00000	0.00000	0.00000	4.66875
## 82	Austin Davis	STL	0.00000	0.00000	0.00000	4.55625
## 600	Ryan Spadola	ARI	0.00000	0.00000	0.00000	4.55625
## 401	David Johnson	SD	0.00000	0.00000	0.00000	4.50000
## 264	Charcandrick West	KC	0.00000	0.00000	0.00000	4.44375
## 402	Ryan Taylor	KC	0.00000	0.00000	0.00000	4.44375
## 83	Chase Daniel	KC	0.00000	0.00000	0.00000	4.38750
## 265	DuJuan Harris	MIN	0.00000	0.00000	0.00000	4.38750
## 403	John Phillips	SD	0.00000	0.00000	0.00000	4.38750
## 601	Quincy Enunwa	NYJ	0.00000	0.00000	0.00000	4.38750
## 87	Bruce Gradkowski	PIT	0.00000	0.00000	0.00000	4.37500
## 611	Darrius Heyward-Bey	PIT	0.00000	0.00000	0.00000	4.37500
## 613	James Jones	NYG	0.00000	0.00000	0.00000	4.37500
## 404	Brandon Bostick	MIN	0.00000	0.00000	0.00000	4.33125
## 602	Deonte Thompson	BUF	0.00000	0.00000	0.00000	4.33125
## 603	Kevin Dorsey	NE	0.00000	0.00000	0.00000	4.33125
## 84	Colt McCoy	WAS	0.00000	0.00000	0.00000	4.27500
## 270	Tim Hightower	NO	0.00000	0.00000	0.00000	4.25000
## 85	Mike Glennon	TB	0.00000	0.00000	0.00000	4.21875
## 86	Blaine Gabbert	SF	0.00000	0.00000	0.00000	4.21875
## 405	Trey Burton	PHI	0.00000	0.00000	0.00000	4.21875
## 604	Eric Weems	ATL	0.00000	0.00000	0.00000	4.21875
## 605	Stefon Diggs	MIN	0.00000	0.00000	0.00000	4.16250
## 606	Marquise Goodwin	BUF	0.00000	0.00000	0.00000	4.16250
## 607	Chris Givens	STL	0.00000	0.00000	0.00000	4.10625
## 266	George Winn	DET	0.00000	0.00000	0.00000	4.05000
## 406	Phillip Supernaw	TEN	0.00000	0.00000	0.00000	4.05000
## 267	Jordan Todman	CAR	0.00000	0.00000	0.00000	3.99375
## 608	J.J. Nelson	ARI	0.00000	0.00000	0.00000	3.99375
## 609	DeVier Posey	NYJ	0.00000	0.00000	0.00000	3.99375
## 610	Jared Abbrederis	GB	0.00000	0.00000	0.00000	3.99375
## 268	LaMichael James	MIA	0.00000	0.00000	0.00000	3.93750
## 612	Robert Herron	TB	0.00000	0.00000	0.00000	3.93750
## 618	Josh Morgan	NO	0.00000	0.00000	0.00000	3.93750
## 269	Trey Watts	STL	0.00000	0.00000	0.00000	3.88125
## 407	Tim Wright	TB	0.00000	0.00000	0.00000	3.82500
## 614	Greg Salas	DET	0.00000	0.00000	0.00000	3.82500
## 408	Garrett Celek	SF	0.00000	0.00000	0.00000	3.76875
## 625	Vince Mayle	CLE	0.00000	0.00000	0.00000	3.75000
## 271	Zurlon Tipton	IND	0.00000	0.00000	0.00000	3.71250
## 615	Brice Butler	OAK	0.00000	0.00000	0.00000	3.71250
## 616	Lance Moore	DET	0.00000	0.00000	0.00000	3.71250
## 617	Duron Carter	IND	0.00000	0.00000	0.00000	3.65625
## 409	Chase Ford	MIN	0.00000	0.00000	0.00000	3.60000
## 88	Shaun Hill	MIN	0.00000	0.00000	0.00000	3.54375
## 89	Chad Henne	JAC	0.00000	0.00000	0.00000	3.54375
## 272	Zach Zenner	DET	0.00000	0.00000	0.00000	3.54375
## 410	Sean McGrath	IND	0.00000	0.00000	0.00000	3.54375
## 619	Junior Hemingway	KC	0.00000	0.00000	0.00000	3.54375
## 620	Chris Owusu	NYJ	0.00000	0.00000	0.00000	3.48750

## 621	Darren Waller	BAL	0.00000	0.00000	0.00000	3.48750
## 622	Isaiah Burse	DEN	0.00000	0.00000	0.00000	3.48750
## 623	Aaron Dobson	NE	0.00000	0.00000	0.00000	3.48750
## 273	Collin Mooney	ATL	0.00000	0.00000	0.00000	3.37500
## 411	Je'Ron Hamm	WAS	0.00000	0.00000	0.00000	3.37500
## 624	Adam Thielen	MIN	0.00000	0.00000	0.00000	3.37500
## 274	Donald Brown	SD	0.00000	0.00000	0.00000	3.26250
## 626	Keshawn Martin	HOU	0.00000	0.00000	0.00000	3.26250
## 627	Damaris Johnson	HOU	0.00000	0.00000	0.00000	3.26250
## 628	Josh Boyce	NE	0.00000	0.00000	0.00000	3.26250
## 277	Orleans Darkwa	NYG	0.00000	0.00000	0.00000	3.18750
## 416	Adrien Robinson	NYG	0.00000	0.00000	0.00000	3.18750
## 412	Brian Leonhardt	OAK	0.00000	0.00000	0.00000	3.15000
## 413	Michael Hoomanawanui	NE	0.00000	0.00000	0.00000	3.15000
## 282	Marcus Murphy	NO	0.00000	0.00000	0.00000	3.06250
## 275	Kerwynn Williams	ARI	0.00000	0.00000	0.00000	3.03750
## 276	Mike Davis	SF	0.00000	0.00000	0.00000	3.03750
## 629	Brenton Bersin	CAR	0.00000	0.00000	0.00000	3.03750
## 630	Vincent Brown	IND	0.00000	0.00000	0.00000	3.03750
## 414	Mickey Shuler	ATL	0.00000	0.00000	0.00000	2.92500
## 278	Ray Agnew	DAL	0.00000	0.00000	0.00000	2.86875
## 279	Jerome Smith	ATL	0.00000	0.00000	0.00000	2.86875
## 280	Jamize Olawale	OAK	0.00000	0.00000	0.00000	2.86875
## 415	Zach Miller	CHI	0.00000	0.00000	0.00000	2.86875
## 417	J.J. Watt	HOU	0.00000	0.00000	0.00000	2.86875
## 631	Neal Sterling	JAC	0.00000	0.00000	0.00000	2.86875
## 632	Keith Mumphery	HOU	0.00000	0.00000	0.00000	2.81250
## 633	Kris Durham	OAK	0.00000	0.00000	0.00000	2.81250
## 634	Rodney Smith	FA	0.00000	0.00000	0.00000	2.81250
## 281	John Conner	BUF	0.00000	0.00000	0.00000	2.75625
## 418	Jordan Thompson	DET	0.00000	0.00000	0.00000	2.75625
## 419	Clay Harbor	JAC	0.00000	0.00000	0.00000	2.75625
## 283	Ronnie Brown	FA	0.00000	0.00000	0.00000	2.70000
## 422	Orson Charles	NO	0.00000	0.00000	0.00000	2.68750
## 423	Jesse James	PIT	0.00000	0.00000	0.00000	2.68750
## 636	Dwayne Harris	NYG	0.00000	0.00000	0.00000	2.68750
## 284	Antonio Andrews	TEN	0.00000	0.00000	0.00000	2.64375
## 285	Marcus Thigpen	BUF	0.00000	0.00000	0.00000	2.64375
## 90	Scott Tolzien	GB	0.00000	0.00000	0.00000	2.58750
## 286	Bryce Brown	BUF	0.00000	0.00000	0.00000	2.58750
## 420	Kellen Davis	NYJ	0.00000	0.00000	0.00000	2.58750
## 287	Darrin Reaves	KC	0.00000	0.00000	0.00000	2.53125
## 421	James Hanna	DAL	0.00000	0.00000	0.00000	2.53125
## 635	Matt Hazel	MIA	0.00000	0.00000	0.00000	2.53125
## 91	Christian Ponder	OAK	0.00000	0.00000	0.00000	2.41875
## 637	Kevin Norwood	SEA	0.00000	0.00000	0.00000	2.41875
## 644	Jalen Saunders	NO	0.00000	0.00000	0.00000	2.37500
## 288	Kenny Hilliard	HOU	0.00000	0.00000	0.00000	2.36250
## 638	Josh Bellamy	CHI	0.00000	0.00000	0.00000	2.36250
## 424	Brandon Williams	ARI	0.00000	0.00000	0.00000	2.30625
## 639	Marc Mariani	CHI	0.00000	0.00000	0.00000	2.30625
## 640	Seyi Ajirotutu	PHI	0.00000	0.00000	0.00000	2.30625
## 289	Chase Reynolds	STL	0.00000	0.00000	0.00000	2.25000
## 292	Edwin Baker	NO	0.00000	0.00000	0.00000	2.25000

## 425	Anthony McCoy	SEA	0.00000	0.00000	0.00000	2.25000
## 426	Luke Stocker	TB	0.00000	0.00000	0.00000	2.25000
## 641	Marcus Easley	BUF	0.00000	0.00000	0.00000	2.25000
## 642	Alan Bonner	HOU	0.00000	0.00000	0.00000	2.25000
## 92	Ryan Nassib	NYG	0.00000	0.00000	0.00000	2.18750
## 428	Alex Smith	NO	0.00000	0.00000	0.00000	2.18750
## 427	Cory Harkey	STL	0.00000	0.00000	0.00000	2.13750
## 643	Ryan Broyles	DET	0.00000	0.00000	0.00000	2.13750
## 645	Frankie Hammond	KC	0.00000	0.00000	0.00000	2.13750
## 290	John Crockett	GB	0.00000	0.00000	0.00000	2.08125
## 646	Denarius Moore	CIN	0.00000	0.00000	0.00000	2.08125
## 291	Mike James	TB	0.00000	0.00000	0.00000	2.02500
## 93	Luke McCown	NO	0.00000	0.00000	0.00000	2.00000
## 293	Gus Johnson	DAL	0.00000	0.00000	0.00000	1.96875
## 294	Kiero Small	BAL	0.00000	0.00000	0.00000	1.96875
## 647	Myles White	GB	0.00000	0.00000	0.00000	1.96875
## 295	Cedric Peerman	CIN	0.00000	0.00000	0.00000	1.91250
## 429	Kennard Backman	GB	0.00000	0.00000	0.00000	1.91250
## 648	Greg Little	CIN	0.00000	0.00000	0.00000	1.91250
## 649	Russell Shepard	TB	0.00000	0.00000	0.00000	1.91250
## 430	Ifeanyi Momah	ARI	0.00000	0.00000	0.00000	1.85625
## 650	Lucky Whitehead	DAL	0.00000	0.00000	0.00000	1.85625
## 94	Matt Hasselbeck	IND	0.00000	0.00000	0.00000	1.80000
## 431	Bear Pascoe	CHI	0.00000	0.00000	0.00000	1.80000
## 296	Senorise Perry	CHI	0.00000	0.00000	0.00000	1.74375
## 95	Kellen Clemens	SD	0.00000	0.00000	0.00000	1.57500
## 297	Alfonso Smith	FA	0.00000	0.00000	0.00000	1.57500
## 432	C.J. Uzomah	CIN	0.00000	0.00000	0.00000	1.51875
## 96	Brock Osweiler	DEN	0.00000	0.00000	0.00000	1.46250
## 298	Bernard Pierce	JAC	0.00000	0.00000	0.00000	1.46250
## 433	Dominique Jones	DEN	0.00000	0.00000	0.00000	1.46250
## 651	Tre McBride	TEN	0.00000	0.00000	0.00000	1.46250
## 434	Nick Boyle	BAL	0.00000	0.00000	0.00000	1.40625
## 436	E.J. Bibbs	CLE	0.00000	0.00000	0.00000	1.37500
## 299	Thomas Rawls	SEA	0.00000	0.00000	0.00000	1.35000
## 652	Griff Whalen	IND	0.00000	0.00000	0.00000	1.35000
## 653	Arrelious Benn	JAC	0.00000	0.00000	0.00000	1.35000
## 97	Matt Schaub	BAL	0.00000	0.00000	0.00000	1.29375
## 435	Nick O'Leary	BUF	0.00000	0.00000	0.00000	1.29375
## 654	Chuck Jacobs	SF	0.00000	0.00000	0.00000	1.29375
## 300	Trey Williams	WAS	0.00000	0.00000	0.00000	1.23750
## 437	Richard Gordon	KC	0.00000	0.00000	0.00000	1.12500
## 98	Matt Moore	MIA	0.00000	0.00000	0.00000	1.06875
## 301	Kenjon Barner	PHI	0.00000	0.00000	0.00000	1.06875
## 302	Corey Grant	JAC	0.00000	0.00000	0.00000	1.01250
## 655	James Wright	CIN	0.00000	0.00000	0.00000	1.01250
## 303	Shaun Draughn	CLE	0.00000	0.00000	0.00000	1.00000
## 99	Josh Johnson	CIN	0.00000	0.00000	0.00000	0.95625
## 34	Brandon McManus	DEN	0.16875	0.22500	0.39375	0.90000
## 438	Steve Maneri	NYJ	0.00000	0.00000	0.00000	0.90000
## 439	Anthony Denham	HOU	0.00000	0.00000	0.00000	0.78750
## 100	Taylor Yates	ATL	0.00000	0.00000	0.00000	0.67500
## 304	Jarryd Hayne	SF	0.00000	0.00000	0.00000	0.61875
## 656	Jacoby Ford	TEN	0.00000	0.00000	0.00000	0.56250

## 101	Matt McGloin	OAK	0.00000	0.00000	0.00000	0.50625	
## 102	Tarvaris Jackson	SEA	0.00000	0.00000	0.00000	0.45000	
## 103	AJ McCarron	CIN	0.00000	0.00000	0.00000	0.33750	
## 104	Dan Orlovsky	DET	0.00000	0.00000	0.00000	0.33750	
## 305	Aaron Ripkowski	GB	0.00000	0.00000	0.00000	0.33750	
## 306	Trey Millard	SF	0.00000	0.00000	0.00000	0.33750	
## 307	Jordan Campbell	WAS	0.00000	0.00000	0.00000	0.33750	
## 308	Nikita Whitlock	NYG	0.00000	0.00000	0.00000	0.31250	
## 441	Malcolm Johnson	CLE	0.00000	0.00000	0.00000	0.25000	
## 309	Joey Iosefa	TB	0.00000	0.00000	0.00000	0.22500	
## 440	Asante Cleveland	NE	0.00000	0.00000	0.00000	0.22500	
## 311	Braylon Heard	PIT	0.00000	0.00000	0.00000	0.18750	
## 310	Malcolm Brown	STL	0.00000	0.00000	0.00000	0.16875	
## 105	Ryan Lindley	NE	0.00000	0.00000	0.00000	0.11250	
## 106	Bryce Petty	NYJ	0.00000	0.00000	0.00000	0.11250	
## 312	Tony Creecy	NE	0.00000	0.00000	0.00000	0.11250	
## 313	Dion Lewis	NE	0.00000	0.00000	0.00000	0.11250	
## 107	Tom Savage	HOU	0.00000	0.00000	0.00000	0.00000	
## 108	Chandler Harnish	ARI	0.00000	0.00000	0.00000	0.00000	
## 109	Case Keenum	STL	0.00000	0.00000	0.00000	0.00000	
## 110	Sean Renfree	ATL	0.00000	0.00000	0.00000	0.00000	
## 111	Matt Simms	BUF	0.00000	0.00000	0.00000	0.00000	
## 112	Joe Webb	CAR	0.00000	0.00000	0.00000	0.00000	
## 113	Matt Barkley	PHI	0.00000	0.00000	0.00000	0.00000	
## 114	Charlie Whitehurst	TEN	0.00000	0.00000	0.00000	0.00000	
## 115	Landry Jones	PIT	0.00000	0.00000	0.00000	0.00000	
## 116	Ricky Stanzi	NYG	0.00000	0.00000	0.00000	0.00000	
## 117	Tim Tebow	PHI	0.00000	0.00000	0.00000	0.00000	
## 118	Mike Kafka	MIN	0.00000	0.00000	0.00000	0.00000	
## 119	Logan Thomas	ARI	0.00000	0.00000	0.00000	0.00000	
## 120	Brett Hundley	GB	0.00000	0.00000	0.00000	0.00000	
## 121	Garrett Grayson	NO	0.00000	0.00000	0.00000	0.00000	
## 314	Pierre Thomas	FA	0.00000	0.00000	0.00000	0.00000	
## 315	Ahmad Bradshaw	FA	0.00000	0.00000	0.00000	0.00000	
## 316	Tyler Gaffney	NE	0.00000	0.00000	0.00000	0.00000	
## 442	Richie Brockel	CAR	0.00000	0.00000	0.00000	-0.05625	
##	pass_att	pass_cmp	pass_yds	pass_tds	pass_ints	rush_att	rush_yds
## 39	387.75000	259.18750	3014.93750	19.50000	8.87500	17.18750	40.43750
## 35	359.66250	221.00625	2654.15625	19.85625	9.00000	31.16250	144.73125
## 36	307.46250	199.01250	2458.29375	19.40625	5.00625	27.61875	137.64375
## 37	260.43750	160.42500	2002.33125	14.00625	5.96250	58.33125	362.58750
## 42	372.12500	241.62500	2845.93750	17.81250	8.37500	17.62500	42.87500
## 38	337.16250	222.63750	2624.28750	19.80000	7.42500	14.96250	5.45625
## 40	355.61250	233.26875	2668.89375	16.20000	8.38125	15.18750	55.12500
## 47	371.18750	230.06250	2743.75000	17.43750	10.31250	14.37500	41.25000
## 41	281.30625	168.52500	2012.34375	12.20625	8.15625	58.95000	317.08125
## 43	284.51250	186.75000	2287.01250	17.94375	6.35625	15.18750	38.13750
## 44	352.74375	214.59375	2511.33750	15.18750	8.32500	20.41875	61.08750
## 45	328.83750	209.25000	2357.43750	14.51250	8.32500	27.28125	135.90000
## 46	320.34375	206.94375	2460.54375	16.08750	9.05625	19.06875	40.78125
## 48	272.64375	164.86875	1983.60000	10.18125	6.52500	54.33750	326.98125
## 49	312.07500	192.76875	2215.01250	14.40000	8.10000	23.68125	66.65625
## 50	320.62500	199.96875	2241.95625	14.17500	9.67500	23.23125	109.29375
## 126	0.00000	0.00000	0.00000	0.00000	0.00000	152.43750	672.43750

## 51	292.83750	180.78750	2103.13125	12.48750	8.43750	35.04375	154.40625
## 443	0.00000	0.00000	0.00000	0.00000	0.00000	2.68750	14.50000
## 52	310.55625	190.63125	2258.04375	13.61250	7.87500	13.33125	33.63750
## 53	288.73125	176.62500	2096.21250	13.72500	7.14375	22.61250	73.12500
## 54	281.36250	175.50000	1929.71250	12.03750	6.18750	30.99375	154.46250
## 122	0.00000	0.00000	0.00000	0.00000	0.00000	130.72500	628.03125
## 123	0.00000	0.00000	0.00000	0.00000	0.00000	156.43125	736.08750
## 124	0.00000	0.00000	0.00000	0.00000	0.00000	158.96250	711.28125
## 125	0.00000	0.00000	0.00000	0.00000	0.00000	159.58125	745.42500
## 445	0.00000	0.00000	0.00000	0.00000	0.00000	3.25000	21.81250
## 55	296.43750	182.41875	2051.88750	12.54375	10.23750	30.88125	103.83750
## 56	277.48125	166.44375	1940.40000	10.40625	8.55000	37.68750	201.43125
## 57	261.78750	167.11875	1902.60000	13.38750	5.00625	13.72500	22.95000
## 58	291.82500	172.51875	2135.25000	11.75625	9.95625	24.97500	99.84375
## 127	0.00000	0.00000	0.00000	0.00000	0.00000	142.08750	597.82500
## 128	0.00000	0.00000	0.00000	0.00000	0.00000	135.78750	614.19375
## 59	300.31875	178.36875	1972.57500	9.78750	9.90000	33.13125	201.48750
## 444	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 60	325.51875	192.76875	2127.09375	11.47500	8.60625	16.70625	53.55000
## 61	281.92500	171.73125	1954.40625	11.19375	7.93125	21.60000	93.03750
## 62	250.20000	155.08125	1832.51250	9.05625	7.76250	39.15000	208.06875
## 446	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.22500
## 129	0.00000	0.00000	0.00000	0.00000	0.00000	141.18750	644.40000
## 130	0.00000	0.00000	0.00000	0.00000	0.00000	167.51250	734.06250
## 131	0.00000	0.00000	0.00000	0.00000	0.00000	144.50625	666.39375
## 447	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 134	0.00000	0.00000	0.00000	0.00000	0.00000	143.81250	627.37500
## 448	0.00000	0.00000	0.00000	0.00000	0.00000	0.95625	5.68125
## 449	0.00000	0.00000	0.00000	0.00000	0.00000	5.23125	40.66875
## 63	274.56250	159.06250	1881.56250	8.75000	8.62500	23.12500	106.56250
## 132	0.00000	0.00000	0.00000	0.00000	0.00000	120.76875	585.16875
## 133	0.00000	0.00000	0.00000	0.00000	0.00000	130.89375	604.80000
## 450	0.00000	0.00000	0.00000	0.00000	0.00000	1.51875	9.61875
## 451	0.00000	0.00000	0.00000	0.00000	0.00000	3.03750	19.63125
## 452	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 135	0.00000	0.00000	0.00000	0.00000	0.00000	140.62500	613.18125
## 317	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 455	0.00000	0.00000	0.00000	0.00000	0.00000	6.18750	44.81250
## 136	0.00000	0.00000	0.00000	0.00000	0.00000	129.82500	577.23750
## 453	0.00000	0.00000	0.00000	0.00000	0.00000	1.51875	9.78750
## 137	0.00000	0.00000	0.00000	0.00000	0.00000	131.34375	533.75625
## 138	0.00000	0.00000	0.00000	0.00000	0.00000	122.85000	544.21875
## 139	0.00000	0.00000	0.00000	0.00000	0.00000	134.77500	567.56250
## 454	0.00000	0.00000	0.00000	0.00000	0.00000	2.70000	17.21250
## 145	0.00000	0.00000	0.00000	0.00000	0.00000	117.31250	484.68750
## 140	0.00000	0.00000	0.00000	0.00000	0.00000	106.81875	423.05625
## 456	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 141	0.00000	0.00000	0.00000	0.00000	0.00000	117.95625	537.75000
## 142	0.00000	0.00000	0.00000	0.00000	0.00000	111.93750	488.86875
## 143	0.00000	0.00000	0.00000	0.00000	0.00000	114.91875	510.52500
## 457	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 151	0.00000	0.00000	0.00000	0.00000	0.00000	126.25000	528.25000
## 64	218.36250	128.25000	1509.97500	7.87500	6.75000	13.16250	26.55000
## 144	0.00000	0.00000	0.00000	0.00000	0.00000	107.55000	478.18125

## 458	0.00000	0.00000	0.00000	0.00000	0.00000	4.05000	30.48750
## 65	179.43750	108.95625	1260.16875	7.53750	5.62500	20.70000	87.13125
## 459	0.00000	0.00000	0.00000	0.00000	0.00000	2.30625	12.37500
## 146	0.00000	0.00000	0.00000	0.00000	0.00000	101.98125	407.81250
## 460	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 461	0.00000	0.00000	0.00000	0.00000	0.00000	1.46250	8.71875
## 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 462	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 318	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 471	0.00000	0.00000	0.00000	0.00000	0.00000	1.56250	9.37500
## 463	0.00000	0.00000	0.00000	0.00000	0.00000	1.57500	9.16875
## 10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 147	0.00000	0.00000	0.00000	0.00000	0.00000	92.47500	422.88750
## 148	0.00000	0.00000	0.00000	0.00000	0.00000	100.12500	450.90000
## 464	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 155	0.00000	0.00000	0.00000	0.00000	0.00000	63.93750	275.37500
## 149	0.00000	0.00000	0.00000	0.00000	0.00000	109.68750	483.24375
## 13	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 14	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 465	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 466	0.00000	0.00000	0.00000	0.00000	0.00000	0.11250	0.22500
## 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 150	0.00000	0.00000	0.00000	0.00000	0.00000	95.11875	403.53750
## 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 152	0.00000	0.00000	0.00000	0.00000	0.00000	74.81250	309.65625
## 7	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 467	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	-0.11250
## 8	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 484	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 153	0.00000	0.00000	0.00000	0.00000	0.00000	78.75000	337.72500
## 154	0.00000	0.00000	0.00000	0.00000	0.00000	85.61250	343.51875
## 9	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 468	0.00000	0.00000	0.00000	0.00000	0.00000	1.06875	6.91875
## 469	0.00000	0.00000	0.00000	0.00000	0.00000	0.50625	4.33125
## 485	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 470	0.00000	0.00000	0.00000	0.00000	0.00000	1.23750	7.65000
## 319	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 11	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 472	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 473	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 12	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 474	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 475	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.33750
## 476	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 320	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 477	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.16875
## 478	0.00000	0.00000	0.00000	0.00000	0.00000	0.16875	0.11250
## 15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 479	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 16	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 17	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 480	0.00000	0.00000	0.00000	0.00000	0.00000	0.16875	1.18125
## 481	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 18	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 19	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 156	0.00000	0.00000	0.00000	0.00000	0.00000	107.26875	416.81250
## 20	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 482	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.22500
## 483	0.00000	0.00000	0.00000	0.00000	0.00000	1.35000	8.10000
## 30	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 21	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 158	0.00000	0.00000	0.00000	0.00000	0.00000	55.37500	228.25000
## 22	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 23	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 321	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 24	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 25	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 32	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 322	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 157	0.00000	0.00000	0.00000	0.00000	0.00000	79.08750	360.78750
## 486	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 493	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 487	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.11250
## 26	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 27	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 488	0.00000	0.00000	0.00000	0.00000	0.00000	1.35000	9.00000
## 489	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.11250
## 28	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 495	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 490	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 491	0.00000	0.00000	0.00000	0.00000	0.00000	0.73125	4.89375
## 492	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 323	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 29	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 31	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 159	0.00000	0.00000	0.00000	0.00000	0.00000	91.23750	371.75625
## 160	0.00000	0.00000	0.00000	0.00000	0.00000	90.61875	353.92500
## 66	153.05625	88.93125	1013.90625	5.79375	4.89375	12.15000	32.73750
## 33	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 324	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 494	0.00000	0.00000	0.00000	0.00000	0.00000	0.28125	2.25000
## 161	0.00000	0.00000	0.00000	0.00000	0.00000	78.80625	342.39375
## 496	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 497	0.00000	0.00000	0.00000	0.00000	0.00000	1.23750	7.53750
## 325	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 332	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 67	115.70625	68.17500	762.58125	4.50000	3.99375	17.77500	85.21875
## 498	0.00000	0.00000	0.00000	0.00000	0.00000	0.11250	0.05625
## 499	0.00000	0.00000	0.00000	0.00000	0.00000	8.38125	51.46875
## 326	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 327	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 162	0.00000	0.00000	0.00000	0.00000	0.00000	58.44375	221.23125
## 328	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 500	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.45000
## 329	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 501	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.05625
## 502	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 68	108.56250	63.56250	750.26250	4.44375	3.82500	13.72500	65.64375
## 330	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 163	0.00000	0.00000	0.00000	0.00000	0.00000	34.42500	136.23750
## 337	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 168	0.00000	0.00000	0.00000	0.00000	0.00000	53.31250	231.18750
## 331	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 506	0.00000	0.00000	0.00000	0.00000	0.00000	1.68750	10.75000
## 507	0.00000	0.00000	0.00000	0.00000	0.00000	2.68750	19.00000
## 503	0.00000	0.00000	0.00000	0.00000	0.00000	1.06875	6.86250
## 508	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 164	0.00000	0.00000	0.00000	0.00000	0.00000	49.05000	213.97500
## 165	0.00000	0.00000	0.00000	0.00000	0.00000	65.92500	264.03750
## 333	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 504	0.00000	0.00000	0.00000	0.00000	0.00000	0.78750	4.89375
## 173	0.00000	0.00000	0.00000	0.00000	0.00000	64.31250	252.81250
## 505	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 511	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 166	0.00000	0.00000	0.00000	0.00000	0.00000	58.16250	227.64375
## 334	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 167	0.00000	0.00000	0.00000	0.00000	0.00000	61.42500	254.58750
## 335	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 336	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 338	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 169	0.00000	0.00000	0.00000	0.00000	0.00000	51.13125	211.72500
## 339	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 170	0.00000	0.00000	0.00000	0.00000	0.00000	27.16875	126.11250
## 171	0.00000	0.00000	0.00000	0.00000	0.00000	39.37500	164.64375
## 172	0.00000	0.00000	0.00000	0.00000	0.00000	55.85625	243.11250
## 342	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 509	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	1.68750
## 510	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 512	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 340	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 174	0.00000	0.00000	0.00000	0.00000	0.00000	51.24375	216.78750
## 513	0.00000	0.00000	0.00000	0.00000	0.00000	2.70000	18.33750
## 514	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 515	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 516	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.61875
## 175	0.00000	0.00000	0.00000	0.00000	0.00000	46.91250	196.08750
## 344	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 176	0.00000	0.00000	0.00000	0.00000	0.00000	36.95625	152.88750
## 341	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 517	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625
## 177	0.00000	0.00000	0.00000	0.00000	0.00000	45.67500	179.94375
## 178	0.00000	0.00000	0.00000	0.00000	0.00000	38.30625	156.82500
## 184	0.00000	0.00000	0.00000	0.00000	0.00000	52.87500	218.93750
## 179	0.00000	0.00000	0.00000	0.00000	0.00000	37.68750	157.10625
## 180	0.00000	0.00000	0.00000	0.00000	0.00000	40.33125	172.23750
## 518	0.00000	0.00000	0.00000	0.00000	0.00000	11.41875	93.60000
## 519	0.00000	0.00000	0.00000	0.00000	0.00000	1.12500	7.25625
## 520	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 521	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 181	0.00000	0.00000	0.00000	0.00000	0.00000	51.18750	210.93750
## 343	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 182	0.00000	0.00000	0.00000	0.00000	0.00000	43.59375	185.06250
## 69	81.67500	49.05000	589.95000	2.98125	2.25000	8.32500	19.96875
## 345	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 346	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 522	0.00000	0.00000	0.00000	0.00000	0.00000	21.93750	90.00000
## 183	0.00000	0.00000	0.00000	0.00000	0.00000	35.55000	167.62500
## 523	0.00000	0.00000	0.00000	0.00000	0.00000	2.58750	16.98750
## 524	0.00000	0.00000	0.00000	0.00000	0.00000	1.57500	9.61875
## 187	0.00000	0.00000	0.00000	0.00000	0.00000	51.37500	212.25000
## 525	0.00000	0.00000	0.00000	0.00000	0.00000	0.28125	1.01250
## 347	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 526	0.00000	0.00000	0.00000	0.00000	0.00000	0.61875	4.16250
## 185	0.00000	0.00000	0.00000	0.00000	0.00000	41.11875	161.94375
## 535	0.00000	0.00000	0.00000	0.00000	0.00000	0.12500	0.43750
## 186	0.00000	0.00000	0.00000	0.00000	0.00000	31.95000	131.45625
## 70	81.28125	48.15000	526.83750	3.20625	2.30625	5.45625	15.41250
## 527	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 348	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 528	0.00000	0.00000	0.00000	0.00000	0.00000	1.40625	9.50625
## 529	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 530	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 531	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 188	0.00000	0.00000	0.00000	0.00000	0.00000	26.94375	111.60000
## 532	0.00000	0.00000	0.00000	0.00000	0.00000	1.68750	11.30625
## 533	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625
## 189	0.00000	0.00000	0.00000	0.00000	0.00000	26.04375	104.73750
## 190	0.00000	0.00000	0.00000	0.00000	0.00000	35.94375	153.22500
## 534	0.00000	0.00000	0.00000	0.00000	0.00000	0.61875	2.98125
## 191	0.00000	0.00000	0.00000	0.00000	0.00000	40.38750	164.30625
## 349	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 536	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 192	0.00000	0.00000	0.00000	0.00000	0.00000	14.56875	55.68750
## 193	0.00000	0.00000	0.00000	0.00000	0.00000	21.43125	84.20625
## 194	0.00000	0.00000	0.00000	0.00000	0.00000	36.78750	143.83125
## 352	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 537	0.00000	0.00000	0.00000	0.00000	0.00000	0.84375	5.17500
## 538	0.00000	0.00000	0.00000	0.00000	0.00000	0.45000	2.47500
## 539	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 540	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 541	0.00000	0.00000	0.00000	0.00000	0.00000	4.61250	36.33750
## 551	0.00000	0.00000	0.00000	0.00000	0.00000	0.81250	6.75000
## 542	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 543	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 544	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.05625
## 195	0.00000	0.00000	0.00000	0.00000	0.00000	27.05625	91.63125
## 545	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 196	0.00000	0.00000	0.00000	0.00000	0.00000	33.13125	144.00000
## 546	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 547	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 350	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 351	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 353	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 548	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 549	0.00000	0.00000	0.00000	0.00000	0.00000	8.43750	50.85000
## 354	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 355	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 356	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 550	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.39375
## 552	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 197	0.00000	0.00000	0.00000	0.00000	0.00000	36.84375	155.70000
## 198	0.00000	0.00000	0.00000	0.00000	0.00000	30.82500	127.68750
## 357	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 200	0.00000	0.00000	0.00000	0.00000	0.00000	27.18750	122.56250
## 199	0.00000	0.00000	0.00000	0.00000	0.00000	30.26250	124.20000
## 358	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 553	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 554	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 71	52.37500	29.81250	341.93750	1.75000	1.81250	6.81250	25.62500
## 359	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 201	0.00000	0.00000	0.00000	0.00000	0.00000	22.44375	87.69375
## 202	0.00000	0.00000	0.00000	0.00000	0.00000	20.86875	82.85625
## 360	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 361	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 555	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625
## 203	0.00000	0.00000	0.00000	0.00000	0.00000	27.00000	113.06250
## 556	0.00000	0.00000	0.00000	0.00000	0.00000	1.63125	11.36250
## 362	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 204	0.00000	0.00000	0.00000	0.00000	0.00000	7.87500	45.50625
## 363	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 205	0.00000	0.00000	0.00000	0.00000	0.00000	23.11875	91.63125
## 367	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 206	0.00000	0.00000	0.00000	0.00000	0.00000	22.89375	98.49375
## 207	0.00000	0.00000	0.00000	0.00000	0.00000	23.96250	95.34375
## 208	0.00000	0.00000	0.00000	0.00000	0.00000	23.34375	97.03125
## 364	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 365	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 209	0.00000	0.00000	0.00000	0.00000	0.00000	22.66875	97.76250
## 557	0.00000	0.00000	0.00000	0.00000	0.00000	0.50625	2.98125
## 72	48.15000	29.41875	345.65625	1.80000	1.80000	1.80000	5.85000
## 366	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 210	0.00000	0.00000	0.00000	0.00000	0.00000	10.46250	41.45625
## 211	0.00000	0.00000	0.00000	0.00000	0.00000	20.30625	80.26875
## 370	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 558	0.00000	0.00000	0.00000	0.00000	0.00000	0.73125	4.95000
## 73	36.22500	22.44375	270.05625	1.80000	1.40625	4.16250	11.19375
## 212	0.00000	0.00000	0.00000	0.00000	0.00000	4.72500	19.80000
## 368	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 369	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 218	0.00000	0.00000	0.00000	0.00000	0.00000	12.56250	38.12500
## 559	0.00000	0.00000	0.00000	0.00000	0.00000	1.68750	10.63125
## 371	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 560	0.00000	0.00000	0.00000	0.00000	0.00000	0.11250	0.16875
## 213	0.00000	0.00000	0.00000	0.00000	0.00000	13.21875	67.55625
## 214	0.00000	0.00000	0.00000	0.00000	0.00000	18.50625	71.60625
## 215	0.00000	0.00000	0.00000	0.00000	0.00000	7.25625	21.54375
## 561	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 216	0.00000	0.00000	0.00000	0.00000	0.00000	9.95625	49.50000
## 217	0.00000	0.00000	0.00000	0.00000	0.00000	10.12500	43.36875
## 562	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 372	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 373	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 374	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 563	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 219	0.00000	0.00000	0.00000	0.00000	0.00000	16.76250	72.45000
## 564	0.00000	0.00000	0.00000	0.00000	0.00000	1.29375	8.43750
## 220	0.00000	0.00000	0.00000	0.00000	0.00000	21.60000	79.03125
## 221	0.00000	0.00000	0.00000	0.00000	0.00000	15.46875	68.45625
## 226	0.00000	0.00000	0.00000	0.00000	0.00000	10.25000	37.75000
## 565	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.16875
## 222	0.00000	0.00000	0.00000	0.00000	0.00000	17.77500	70.87500
## 223	0.00000	0.00000	0.00000	0.00000	0.00000	22.66875	90.84375
## 378	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 375	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 224	0.00000	0.00000	0.00000	0.00000	0.00000	10.18125	40.10625
## 566	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 567	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	0.73125
## 571	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 568	0.00000	0.00000	0.00000	0.00000	0.00000	0.16875	1.18125
## 376	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 377	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 381	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 225	0.00000	0.00000	0.00000	0.00000	0.00000	0.84375	1.35000
## 227	0.00000	0.00000	0.00000	0.00000	0.00000	11.64375	42.97500
## 569	0.00000	0.00000	0.00000	0.00000	0.00000	0.28125	2.02500
## 570	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 576	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.06250
## 228	0.00000	0.00000	0.00000	0.00000	0.00000	15.80625	58.83750
## 229	0.00000	0.00000	0.00000	0.00000	0.00000	6.18750	24.75000
## 379	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 572	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 573	0.00000	0.00000	0.00000	0.00000	0.00000	1.18125	7.87500
## 577	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 380	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 230	0.00000	0.00000	0.00000	0.00000	0.00000	16.25625	73.91250
## 382	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 231	0.00000	0.00000	0.00000	0.00000	0.00000	18.95625	75.88125
## 383	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 574	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.16875
## 74	28.91250	16.98750	189.67500	0.90000	1.12500	3.26250	12.31875
## 575	0.00000	0.00000	0.00000	0.00000	0.00000	0.11250	0.16875
## 582	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 578	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 232	0.00000	0.00000	0.00000	0.00000	0.00000	1.80000	6.97500
## 233	0.00000	0.00000	0.00000	0.00000	0.00000	2.58750	11.30625
## 579	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 580	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 581	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 234	0.00000	0.00000	0.00000	0.00000	0.00000	10.63125	46.46250
## 384	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 235	0.00000	0.00000	0.00000	0.00000	0.00000	0.45000	1.12500

## 236	0.00000	0.00000	0.00000	0.00000	0.00000	7.87500	36.05625
## 583	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 385	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 386	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 237	0.00000	0.00000	0.00000	0.00000	0.00000	13.10625	44.71875
## 238	0.00000	0.00000	0.00000	0.00000	0.00000	9.11250	37.85625
## 239	0.00000	0.00000	0.00000	0.00000	0.00000	7.14375	27.95625
## 244	0.00000	0.00000	0.00000	0.00000	0.00000	6.50000	25.37500
## 240	0.00000	0.00000	0.00000	0.00000	0.00000	3.43125	10.12500
## 241	0.00000	0.00000	0.00000	0.00000	0.00000	4.78125	13.95000
## 75	18.73125	11.41875	128.41875	0.78750	0.56250	1.35000	4.10625
## 387	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 587	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 588	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.50000
## 388	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 242	0.00000	0.00000	0.00000	0.00000	0.00000	5.85000	22.10625
## 584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 249	0.00000	0.00000	0.00000	0.00000	0.00000	2.50000	5.68750
## 585	0.00000	0.00000	0.00000	0.00000	0.00000	0.16875	0.16875
## 243	0.00000	0.00000	0.00000	0.00000	0.00000	10.01250	31.33125
## 389	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 390	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 391	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 245	0.00000	0.00000	0.00000	0.00000	0.00000	9.50625	37.29375
## 586	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.39375
## 76	16.14375	9.50625	114.58125	0.67500	0.56250	1.51875	5.96250
## 246	0.00000	0.00000	0.00000	0.00000	0.00000	0.11250	0.11250
## 247	0.00000	0.00000	0.00000	0.00000	0.00000	4.61250	21.15000
## 392	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 248	0.00000	0.00000	0.00000	0.00000	0.00000	7.93125	29.41875
## 253	0.00000	0.00000	0.00000	0.00000	0.00000	10.43750	35.56250
## 250	0.00000	0.00000	0.00000	0.00000	0.00000	5.96250	21.71250
## 251	0.00000	0.00000	0.00000	0.00000	0.00000	4.61250	14.73750
## 255	0.00000	0.00000	0.00000	0.00000	0.00000	9.56250	37.06250
## 591	0.00000	0.00000	0.00000	0.00000	0.00000	2.81250	18.68750
## 252	0.00000	0.00000	0.00000	0.00000	0.00000	4.89375	19.29375
## 256	0.00000	0.00000	0.00000	0.00000	0.00000	1.68750	4.37500
## 393	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 77	15.52500	9.28125	107.38125	0.56250	0.45000	1.12500	3.54375
## 78	13.33125	7.98750	96.35625	0.61875	0.39375	1.51875	4.16250
## 394	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 589	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 254	0.00000	0.00000	0.00000	0.00000	0.00000	8.21250	37.68750
## 395	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 590	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 396	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 397	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 592	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 79	11.08125	6.63750	80.43750	0.61875	0.16875	0.61875	1.68750
## 398	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 598	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.12500
## 593	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 399	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 594	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 257	0.00000	0.00000	0.00000	0.00000	0.00000	5.11875	19.80000
## 400	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 258	0.00000	0.00000	0.00000	0.00000	0.00000	5.34375	21.20625
## 259	0.00000	0.00000	0.00000	0.00000	0.00000	5.23125	20.81250
## 595	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 80	14.00625	7.98750	91.85625	0.50625	0.33750	1.06875	3.65625
## 596	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 81	12.99375	7.59375	86.79375	0.50625	0.39375	0.78750	3.26250
## 260	0.00000	0.00000	0.00000	0.00000	0.00000	3.76875	19.23750
## 597	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 261	0.00000	0.00000	0.00000	0.00000	0.00000	6.13125	24.63750
## 262	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 263	0.00000	0.00000	0.00000	0.00000	0.00000	2.70000	10.51875
## 599	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 82	12.26250	7.42500	82.80000	0.45000	0.33750	0.73125	2.13750
## 600	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 401	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 264	0.00000	0.00000	0.00000	0.00000	0.00000	6.30000	24.35625
## 402	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 83	10.18125	6.07500	66.31875	0.39375	0.16875	1.06875	4.89375
## 265	0.00000	0.00000	0.00000	0.00000	0.00000	4.50000	16.14375
## 403	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 601	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 87	11.06250	6.43750	75.25000	0.50000	0.31250	0.56250	1.31250
## 611	0.00000	0.00000	0.00000	0.00000	0.00000	0.06250	0.18750
## 613	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 404	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 602	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 603	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 84	12.48750	7.81875	91.91250	0.33750	0.39375	1.29375	3.93750
## 270	0.00000	0.00000	0.00000	0.00000	0.00000	5.06250	18.87500
## 85	10.63125	6.24375	72.61875	0.45000	0.39375	2.02500	4.38750
## 86	11.30625	6.69375	76.55625	0.28125	0.22500	1.35000	4.78125
## 405	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 604	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 605	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 606	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.28125
## 607	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625
## 266	0.00000	0.00000	0.00000	0.00000	0.00000	4.72500	21.15000
## 406	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 267	0.00000	0.00000	0.00000	0.00000	0.00000	4.50000	21.09375
## 608	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 609	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 610	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 268	0.00000	0.00000	0.00000	0.00000	0.00000	5.00625	17.94375
## 612	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.28125
## 618	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.25000
## 269	0.00000	0.00000	0.00000	0.00000	0.00000	3.26250	13.61250
## 407	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 614	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.90000
## 408	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 625	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 271	0.00000	0.00000	0.00000	0.00000	0.00000	4.10625	13.21875
## 615	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

## 616	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 617	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 409	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 88	9.95625	5.96250	69.18750	0.33750	0.28125	0.45000	0.84375
## 89	11.70000	6.69375	71.49375	0.28125	0.28125	0.84375	3.48750
## 272	0.00000	0.00000	0.00000	0.00000	0.00000	4.38750	19.06875
## 410	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 619	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 620	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.39375
## 621	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 622	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 623	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 273	0.00000	0.00000	0.00000	0.00000	0.00000	1.63125	6.30000
## 411	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 624	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 274	0.00000	0.00000	0.00000	0.00000	0.00000	3.31875	12.48750
## 626	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 627	0.00000	0.00000	0.00000	0.00000	0.00000	0.28125	0.67500
## 628	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 277	0.00000	0.00000	0.00000	0.00000	0.00000	2.81250	8.43750
## 416	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 412	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 413	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 282	0.00000	0.00000	0.00000	0.00000	0.00000	2.56250	9.93750
## 275	0.00000	0.00000	0.00000	0.00000	0.00000	3.93750	15.63750
## 276	0.00000	0.00000	0.00000	0.00000	0.00000	4.61250	18.33750
## 629	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 630	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 414	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 278	0.00000	0.00000	0.00000	0.00000	0.00000	3.15000	13.44375
## 279	0.00000	0.00000	0.00000	0.00000	0.00000	3.82500	15.35625
## 280	0.00000	0.00000	0.00000	0.00000	0.00000	1.12500	2.58750
## 415	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 417	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 631	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 632	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 633	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 634	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 281	0.00000	0.00000	0.00000	0.00000	0.00000	1.12500	3.31875
## 418	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 419	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 283	0.00000	0.00000	0.00000	0.00000	0.00000	3.37500	13.66875
## 422	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 423	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 636	0.00000	0.00000	0.00000	0.00000	0.00000	0.06250	0.87500
## 284	0.00000	0.00000	0.00000	0.00000	0.00000	4.16250	15.58125
## 285	0.00000	0.00000	0.00000	0.00000	0.00000	1.63125	4.95000
## 90	6.41250	4.05000	45.28125	0.16875	0.16875	0.56250	3.03750
## 286	0.00000	0.00000	0.00000	0.00000	0.00000	3.54375	13.50000
## 420	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 287	0.00000	0.00000	0.00000	0.00000	0.00000	3.37500	12.15000
## 421	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 635	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 91	6.91875	3.88125	39.65625	0.16875	0.22500	1.01250	4.16250

## 637	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 644	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 288	0.00000	0.00000	0.00000	0.00000	0.00000	3.76875	14.17500
## 638	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 424	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 639	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 640	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 289	0.00000	0.00000	0.00000	0.00000	0.00000	3.65625	14.17500
## 292	0.00000	0.00000	0.00000	0.00000	0.00000	2.50000	10.00000
## 425	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 426	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 641	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 642	0.00000	0.00000	0.00000	0.00000	0.00000	1.29375	8.55000
## 92	5.93750	3.68750	41.56250	0.25000	0.18750	0.43750	0.50000
## 428	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 427	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 643	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 645	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 290	0.00000	0.00000	0.00000	0.00000	0.00000	3.09375	11.86875
## 646	0.00000	0.00000	0.00000	0.00000	0.00000	0.05625	0.11250
## 291	0.00000	0.00000	0.00000	0.00000	0.00000	3.76875	14.00625
## 93	6.00000	3.56250	39.87500	0.18750	0.12500	0.37500	0.87500
## 293	0.00000	0.00000	0.00000	0.00000	0.00000	1.29375	4.95000
## 294	0.00000	0.00000	0.00000	0.00000	0.00000	2.19375	9.84375
## 647	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 295	0.00000	0.00000	0.00000	0.00000	0.00000	1.51875	4.72500
## 429	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 648	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 649	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 430	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 650	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 94	5.11875	3.31875	38.08125	0.11250	0.05625	0.45000	0.16875
## 431	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 296	0.00000	0.00000	0.00000	0.00000	0.00000	2.02500	6.63750
## 95	5.56875	3.20625	34.87500	0.16875	0.16875	0.39375	0.61875
## 297	0.00000	0.00000	0.00000	0.00000	0.00000	2.25000	5.90625
## 432	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 96	3.82500	2.25000	25.36875	0.11250	0.05625	0.90000	1.91250
## 298	0.00000	0.00000	0.00000	0.00000	0.00000	2.36250	7.87500
## 433	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 651	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 434	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 436	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 299	0.00000	0.00000	0.00000	0.00000	0.00000	2.53125	9.90000
## 652	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 653	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 97	5.34375	3.20625	33.80625	0.11250	0.16875	0.61875	0.61875
## 435	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 654	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 300	0.00000	0.00000	0.00000	0.00000	0.00000	1.80000	6.86250
## 437	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 98	2.75625	1.74375	20.58750	0.11250	0.05625	0.28125	0.00000
## 301	0.00000	0.00000	0.00000	0.00000	0.00000	1.68750	5.85000
## 302	0.00000	0.00000	0.00000	0.00000	0.00000	2.08125	8.04375

## 655	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 303	0.00000	0.00000	0.00000	0.00000	0.00000	2.81250	6.93750
## 99	3.37500	1.96875	22.78125	0.00000	0.00000	0.28125	0.56250
## 34	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 438	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 439	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 100	2.86875	1.80000	18.90000	0.05625	0.11250	0.28125	0.28125
## 304	0.00000	0.00000	0.00000	0.00000	0.00000	1.18125	4.55625
## 656	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 101	1.68750	1.12500	12.93750	0.00000	0.00000	0.00000	0.00000
## 102	1.01250	0.56250	8.21250	0.00000	0.00000	0.16875	0.22500
## 103	0.95625	0.50625	6.75000	0.00000	0.00000	0.05625	0.22500
## 104	0.95625	0.56250	6.80625	0.00000	0.00000	0.00000	0.05625
## 305	0.00000	0.00000	0.00000	0.00000	0.00000	0.39375	1.80000
## 306	0.00000	0.00000	0.00000	0.00000	0.00000	0.50625	2.19375
## 307	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	1.18125
## 308	0.00000	0.00000	0.00000	0.00000	0.00000	0.37500	1.37500
## 441	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 309	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	0.95625
## 440	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 311	0.00000	0.00000	0.00000	0.00000	0.00000	0.25000	0.93750
## 310	0.00000	0.00000	0.00000	0.00000	0.00000	0.33750	1.12500
## 105	0.45000	0.22500	2.58750	0.00000	0.00000	0.00000	0.00000
## 106	0.50625	0.11250	2.75625	0.00000	0.00000	0.00000	0.00000
## 312	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	0.73125
## 313	0.00000	0.00000	0.00000	0.00000	0.00000	0.22500	0.73125
## 107	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 108	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 109	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 110	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 111	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 112	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 113	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 114	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 115	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 116	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 117	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 118	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 119	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 120	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 121	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 314	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 315	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 316	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
## 442	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
##	rush_tds	fumbles	rec_att	rec_yds	rec_tds	pos	
## 39	0.75000	2.56250	0.00000	0.00000	0.00000	qb	
## 35	1.29375	3.09375	0.00000	0.00000	0.00000	qb	
## 36	1.12500	2.75625	0.00000	0.00000	0.00000	qb	
## 37	2.19375	2.41875	0.00000	0.00000	0.00000	qb	
## 42	0.25000	3.31250	0.00000	0.00000	0.00000	qb	
## 38	0.28125	1.96875	0.00000	0.00000	0.00000	qb	
## 40	0.45000	1.96875	0.00000	0.00000	0.00000	qb	
## 47	0.43750	3.50000	0.00000	0.00000	0.00000	qb	

## 41	2.53125	3.26250	0.00000	0.00000	0.00000	qb
## 43	0.33750	2.75625	0.00000	0.00000	0.00000	qb
## 44	0.84375	2.98125	0.00000	0.00000	0.00000	qb
## 45	0.84375	3.20625	0.00000	0.00000	0.00000	qb
## 46	0.28125	2.53125	0.00000	0.00000	0.00000	qb
## 48	1.40625	3.26250	0.00000	0.00000	0.00000	qb
## 49	0.84375	2.13750	0.00000	0.00000	0.00000	qb
## 50	0.78750	3.03750	0.00000	0.00000	0.00000	qb
## 126	4.37500	0.87500	41.50000	354.75000	1.50000	rb
## 51	1.01250	2.02500	0.00000	0.00000	0.00000	qb
## 443	0.00000	0.81250	72.81250	958.62500	6.12500	wr
## 52	0.33750	1.74375	0.00000	0.00000	0.00000	qb
## 53	0.73125	2.75625	0.00000	0.00000	0.00000	qb
## 54	0.84375	2.13750	0.00000	0.00000	0.00000	qb
## 122	5.17500	2.02500	29.25000	245.47500	2.53125	rb
## 123	5.51250	1.63125	21.26250	183.37500	1.23750	rb
## 124	5.17500	1.46250	25.70625	207.11250	1.35000	rb
## 125	5.51250	1.91250	24.52500	185.51250	0.84375	rb
## 445	0.06250	0.81250	63.25000	860.50000	6.31250	wr
## 55	1.06875	2.08125	0.00000	0.00000	0.00000	qb
## 56	1.12500	2.64375	0.00000	0.00000	0.00000	qb
## 57	0.39375	1.40625	0.00000	0.00000	0.00000	qb
## 58	0.67500	2.75625	0.00000	0.00000	0.00000	qb
## 127	3.65625	1.23750	39.54375	329.23125	1.46250	rb
## 128	5.17500	0.73125	25.31250	215.15625	0.84375	rb
## 59	0.67500	2.75625	0.00000	0.00000	0.00000	qb
## 444	0.00000	0.28125	57.54375	784.35000	6.46875	wr
## 60	0.39375	3.09375	0.00000	0.00000	0.00000	qb
## 61	0.56250	2.30625	0.00000	0.00000	0.00000	qb
## 62	1.35000	3.88125	0.00000	0.00000	0.00000	qb
## 446	0.00000	0.45000	50.11875	744.07500	6.41250	wr
## 129	5.40000	2.64375	21.09375	153.16875	0.56250	rb
## 130	3.99375	1.68750	18.67500	128.36250	0.50625	rb
## 131	5.06250	2.08125	16.03125	125.77500	0.56250	rb
## 447	0.00000	0.28125	48.88125	737.66250	5.68125	wr
## 134	5.56250	1.25000	16.50000	110.93750	0.37500	rb
## 448	0.00000	1.01250	58.16250	802.63125	4.66875	wr
## 449	0.05625	0.84375	51.69375	709.14375	5.34375	wr
## 63	1.00000	3.93750	0.00000	0.00000	0.00000	qb
## 132	3.20625	1.01250	29.92500	210.43125	0.78750	rb
## 133	3.65625	1.46250	21.48750	159.80625	0.61875	rb
## 450	0.00000	1.23750	52.76250	724.95000	4.66875	wr
## 451	0.00000	0.45000	48.37500	659.08125	4.83750	wr
## 452	0.00000	0.39375	44.66250	659.64375	4.72500	wr
## 135	3.99375	1.18125	11.25000	85.21875	0.33750	rb
## 317	0.00000	0.16875	46.12500	600.86250	5.56875	te
## 455	0.06250	0.37500	54.93750	669.75000	3.68750	wr
## 136	3.20625	1.23750	17.38125	138.93750	0.73125	rb
## 453	0.00000	0.73125	47.81250	680.56875	4.10625	wr
## 137	3.60000	1.46250	18.45000	152.83125	0.84375	rb
## 138	3.31875	0.90000	18.45000	148.05000	0.56250	rb
## 139	3.99375	1.18125	14.17500	102.54375	0.33750	rb
## 454	0.05625	0.33750	46.74375	630.28125	4.21875	wr
## 145	3.56250	0.87500	19.25000	146.93750	0.50000	rb

## 140	2.25000	1.23750	27.67500	243.78750	1.06875	rb
## 456	0.00000	0.90000	46.29375	651.93750	3.31875	wr
## 141	3.71250	2.08125	11.36250	86.40000	0.39375	rb
## 142	3.03750	1.23750	18.45000	142.70625	0.56250	rb
## 143	2.86875	0.84375	16.65000	124.08750	0.56250	rb
## 457	0.00000	0.33750	42.18750	557.04375	4.21875	wr
## 151	3.50000	2.25000	11.31250	88.12500	0.31250	rb
## 64	0.28125	1.74375	0.00000	0.00000	0.00000	qb
## 144	4.33125	0.90000	7.93125	55.51875	0.16875	rb
## 458	0.05625	0.73125	53.71875	569.53125	3.31875	wr
## 65	0.56250	1.23750	0.00000	0.00000	0.00000	qb
## 459	0.00000	0.22500	37.51875	585.11250	3.09375	wr
## 146	3.37500	1.35000	17.88750	156.26250	0.50625	rb
## 460	0.00000	1.23750	43.98750	546.97500	4.10625	wr
## 461	0.00000	0.33750	45.61875	588.37500	2.92500	wr
## 1	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 462	0.00000	0.78750	45.33750	577.12500	3.20625	wr
## 318	0.00000	0.67500	38.70000	471.99375	4.89375	te
## 471	0.00000	0.37500	30.43750	483.12500	4.43750	wr
## 463	0.00000	0.67500	38.25000	546.01875	3.48750	wr
## 10	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 147	2.58750	0.78750	15.75000	129.82500	0.90000	rb
## 148	3.03750	1.01250	13.83750	110.08125	0.39375	rb
## 464	0.00000	0.22500	39.93750	525.26250	3.71250	wr
## 155	1.56250	1.87500	38.06250	296.81250	1.81250	rb
## 149	2.70000	0.95625	11.92500	82.46250	0.39375	rb
## 13	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 2	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 14	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 465	0.00000	0.22500	39.82500	524.75625	3.48750	wr
## 3	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 4	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 466	0.00000	0.56250	40.72500	530.04375	3.48750	wr
## 5	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 150	3.20625	1.12500	15.75000	119.86875	0.50625	rb
## 6	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 152	2.25000	0.61875	28.63125	225.22500	0.95625	rb
## 7	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 467	0.00000	0.50625	37.01250	553.78125	2.75625	wr
## 8	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 484	0.00000	0.62500	35.50000	517.12500	3.12500	wr
## 153	2.30625	1.06875	23.11875	181.57500	0.90000	rb
## 154	2.25000	0.84375	22.33125	187.20000	0.67500	rb
## 9	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 468	0.00000	0.45000	39.26250	514.96875	2.86875	wr
## 469	0.00000	0.50625	33.58125	497.98125	3.15000	wr
## 485	0.00000	0.37500	39.81250	526.68750	2.68750	wr
## 470	0.00000	1.01250	47.13750	517.27500	2.86875	wr
## 319	0.00000	0.33750	42.18750	503.04375	2.98125	te
## 11	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 472	0.00000	0.16875	37.96875	503.77500	2.86875	wr
## 473	0.00000	0.73125	38.98125	517.21875	2.81250	wr
## 12	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 474	0.00000	1.01250	40.21875	494.04375	3.20625	wr

## 475	0.00000	0.28125	40.55625	521.26875	2.41875	wr
## 476	0.00000	0.33750	41.28750	507.15000	2.70000	wr
## 320	0.00000	1.18125	41.23125	477.50625	3.43125	te
## 477	0.00000	0.73125	30.43125	465.80625	3.31875	wr
## 478	0.00000	0.28125	32.96250	477.95625	2.92500	wr
## 15	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 479	0.00000	0.45000	34.03125	468.73125	3.09375	wr
## 16	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 17	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 480	0.00000	0.67500	34.65000	468.95625	3.09375	wr
## 481	0.00000	0.16875	30.15000	478.68750	2.75625	wr
## 18	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 19	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 156	2.36250	0.73125	13.16250	86.17500	0.11250	rb
## 20	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 482	0.00000	0.67500	39.15000	483.91875	2.70000	wr
## 483	0.00000	0.22500	31.50000	450.56250	2.92500	wr
## 30	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 21	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 158	1.56250	0.81250	29.68750	261.56250	1.06250	rb
## 22	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 23	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 321	0.00000	0.16875	42.86250	452.64375	2.98125	te
## 24	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 25	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 32	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 322	0.00000	0.22500	36.16875	414.16875	3.31875	te
## 157	2.98125	1.40625	8.43750	69.86250	0.33750	rb
## 486	0.00000	0.39375	33.24375	430.93125	2.92500	wr
## 493	0.00000	0.18750	31.37500	456.75000	2.43750	wr
## 487	0.00000	0.22500	38.70000	465.24375	2.25000	wr
## 26	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 27	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 488	0.00000	0.67500	39.88125	453.20625	2.41875	wr
## 489	0.00000	0.33750	23.45625	390.20625	3.48750	wr
## 28	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 495	0.00000	0.43750	35.12500	470.25000	2.18750	wr
## 490	0.00000	0.11250	24.52500	428.90625	2.64375	wr
## 491	0.00000	0.39375	31.72500	421.42500	2.70000	wr
## 492	0.00000	0.33750	28.63125	405.61875	2.92500	wr
## 323	0.00000	0.45000	35.10000	398.25000	3.03750	te
## 29	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 31	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 159	1.96875	1.46250	11.75625	87.01875	0.22500	rb
## 160	1.63125	0.56250	10.40625	86.85000	0.39375	rb
## 66	0.16875	1.68750	0.00000	0.00000	0.00000	qb
## 33	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 324	0.00000	0.50625	31.05000	387.11250	2.70000	te
## 494	0.00000	0.95625	32.96250	395.26875	2.64375	wr
## 161	1.74375	1.01250	11.08125	90.56250	0.28125	rb
## 496	0.00000	0.28125	27.33750	386.32500	2.47500	wr
## 497	0.00000	0.28125	27.61875	399.03750	2.08125	wr
## 325	0.00000	0.45000	31.95000	375.63750	2.36250	te
## 332	0.00000	1.12500	35.62500	388.43750	2.37500	te

## 67	0.56250	0.90000	0.00000	0.00000	0.00000	qb
## 498	0.00000	0.22500	26.32500	383.17500	2.08125	wr
## 499	0.33750	1.06875	30.76875	338.23125	1.80000	wr
## 326	0.00000	0.22500	29.08125	349.31250	2.53125	te
## 327	0.00000	0.22500	23.56875	278.55000	3.71250	te
## 162	1.29375	1.23750	22.33125	190.40625	0.45000	rb
## 328	0.00000	0.16875	29.64375	325.74375	2.64375	te
## 500	0.00000	0.16875	32.17500	366.46875	1.96875	wr
## 329	0.00000	0.16875	25.08750	310.16250	2.86875	te
## 501	0.00000	0.28125	27.05625	349.93125	2.25000	wr
## 502	0.00000	0.39375	26.49375	354.20625	2.19375	wr
## 68	0.56250	1.12500	0.00000	0.00000	0.00000	qb
## 330	0.00000	0.16875	27.90000	319.55625	2.64375	te
## 163	0.61875	0.84375	26.83125	239.85000	1.23750	rb
## 337	0.00000	1.50000	31.75000	337.43750	2.75000	te
## 168	1.50000	0.93750	17.50000	144.00000	0.37500	rb
## 331	0.00000	0.33750	25.20000	297.00000	2.98125	te
## 506	0.00000	0.25000	28.25000	357.12500	1.68750	wr
## 507	0.00000	0.18750	30.00000	356.87500	1.43750	wr
## 503	0.00000	0.22500	26.21250	340.42500	1.96875	wr
## 508	0.00000	0.37500	22.87500	333.62500	2.25000	wr
## 164	1.01250	0.78750	21.37500	168.91875	0.50625	rb
## 165	2.13750	0.73125	8.71875	62.26875	0.22500	rb
## 333	0.00000	0.67500	33.63750	339.86250	2.08125	te
## 504	0.00000	0.22500	23.17500	308.41875	2.25000	wr
## 173	2.25000	0.75000	8.12500	59.00000	0.12500	rb
## 505	0.00000	0.28125	23.90625	317.92500	2.13750	wr
## 511	0.00000	0.18750	25.18750	351.62500	1.43750	wr
## 166	2.25000	1.23750	9.00000	70.14375	0.39375	rb
## 334	0.00000	0.28125	29.64375	313.53750	2.08125	te
## 167	1.68750	0.67500	8.66250	71.10000	0.22500	rb
## 335	0.00000	0.84375	28.74375	322.20000	2.02500	te
## 336	0.00000	0.16875	28.35000	310.72500	1.96875	te
## 338	0.00000	0.28125	23.68125	292.50000	2.30625	te
## 169	1.85625	1.01250	9.95625	86.90625	0.50625	rb
## 339	0.00000	0.16875	25.93125	307.91250	1.91250	te
## 170	0.95625	0.90000	23.85000	209.86875	0.67500	rb
## 171	0.95625	0.95625	21.43125	174.43125	0.61875	rb
## 172	2.13750	0.45000	5.51250	39.26250	0.16875	rb
## 342	0.00000	0.25000	24.56250	265.87500	2.50000	te
## 509	0.00000	0.22500	20.64375	298.74375	1.85625	wr
## 510	0.00000	0.22500	21.09375	280.57500	1.96875	wr
## 512	0.00000	0.22500	20.58750	305.26875	1.40625	wr
## 340	0.00000	0.22500	21.15000	234.73125	2.58750	te
## 174	1.23750	1.29375	14.96250	97.14375	0.39375	rb
## 513	0.00000	0.56250	19.74375	282.43125	1.51875	wr
## 514	0.00000	0.61875	24.46875	282.20625	1.85625	wr
## 515	0.00000	0.22500	19.23750	271.23750	1.91250	wr
## 516	0.00000	0.16875	23.51250	289.51875	1.57500	wr
## 175	1.51875	0.67500	9.56250	73.80000	0.45000	rb
## 344	0.00000	0.25000	25.56250	265.50000	1.87500	te
## 176	0.78750	0.61875	15.86250	146.81250	0.61875	rb
## 341	0.00000	0.28125	25.65000	273.76875	1.68750	te
## 517	0.00000	0.45000	21.65625	272.98125	1.74375	wr

## 177	1.40625	0.67500	12.20625	98.94375	0.28125	rb
## 178	1.35000	0.90000	15.13125	120.76875	0.39375	rb
## 184	1.25000	0.87500	8.56250	63.12500	0.31250	rb
## 179	1.12500	0.33750	14.45625	114.41250	0.45000	rb
## 180	1.18125	1.12500	14.00625	112.10625	0.39375	rb
## 518	0.39375	0.16875	19.29375	188.66250	0.90000	wr
## 519	0.00000	0.28125	18.33750	241.93125	1.68750	wr
## 520	0.00000	0.56250	22.10625	280.40625	1.23750	wr
## 521	0.00000	0.16875	19.35000	241.42500	1.74375	wr
## 181	1.12500	0.00000	9.00000	62.43750	0.00000	rb
## 343	0.00000	0.11250	19.51875	241.42500	1.68750	te
## 182	0.95625	0.50625	10.35000	78.80625	0.39375	rb
## 69	0.16875	0.33750	0.00000	0.00000	0.00000	qb
## 345	0.00000	0.45000	22.61250	237.99375	1.74375	te
## 346	0.00000	0.22500	23.06250	237.71250	1.57500	te
## 522	0.56250	0.00000	18.56250	169.87500	0.56250	wr
## 183	1.01250	0.33750	13.78125	91.68750	0.22500	rb
## 523	0.05625	0.11250	18.22500	220.95000	1.46250	wr
## 524	0.00000	0.16875	16.59375	227.47500	1.51875	wr
## 187	1.12500	1.12500	7.31250	62.75000	0.12500	rb
## 525	0.00000	0.22500	21.82500	260.43750	1.12500	wr
## 347	0.00000	0.22500	19.80000	222.18750	1.74375	te
## 526	0.00000	0.22500	16.81875	239.06250	1.40625	wr
## 185	1.01250	0.50625	10.12500	86.56875	0.28125	rb
## 535	0.00000	0.93750	17.87500	243.81250	1.37500	wr
## 186	0.84375	0.45000	14.51250	112.21875	0.33750	rb
## 70	0.05625	0.45000	0.00000	0.00000	0.00000	qb
## 527	0.00000	1.68750	19.29375	249.18750	1.46250	wr
## 348	0.00000	0.50625	21.65625	220.66875	1.51875	te
## 528	0.00000	0.11250	16.59375	216.33750	1.23750	wr
## 529	0.00000	0.28125	19.06875	233.83125	1.12500	wr
## 530	0.00000	0.22500	18.95625	230.62500	1.12500	wr
## 531	0.00000	0.11250	15.52500	212.56875	1.35000	wr
## 188	0.56250	0.67500	15.18750	118.46250	0.67500	rb
## 532	0.00000	0.28125	15.07500	201.09375	1.35000	wr
## 533	0.00000	0.33750	15.80625	220.55625	1.23750	wr
## 189	0.56250	0.39375	15.58125	124.98750	0.50625	rb
## 190	0.67500	0.50625	8.60625	74.58750	0.45000	rb
## 534	0.00000	0.78750	18.56250	231.58125	1.06875	wr
## 191	0.78750	0.56250	7.81875	58.89375	0.33750	rb
## 349	0.00000	0.56250	17.66250	200.02500	1.51875	te
## 536	0.00000	0.33750	15.35625	207.61875	1.29375	wr
## 192	0.33750	0.39375	16.93125	147.54375	1.01250	rb
## 193	0.39375	0.45000	16.53750	140.45625	0.56250	rb
## 194	1.12500	0.33750	7.59375	59.23125	0.16875	rb
## 352	0.00000	0.25000	18.50000	207.87500	1.18750	te
## 537	0.00000	0.22500	13.95000	194.17500	1.29375	wr
## 538	0.00000	0.22500	16.59375	203.68125	1.12500	wr
## 539	0.00000	0.11250	12.82500	202.27500	1.12500	wr
## 540	0.00000	0.11250	12.71250	205.42500	1.06875	wr
## 541	0.16875	0.39375	14.45625	178.76250	0.84375	wr
## 551	0.00000	0.12500	14.00000	198.87500	1.00000	wr
## 542	0.00000	0.22500	15.58125	193.89375	1.18125	wr
## 543	0.00000	0.28125	14.90625	199.18125	1.01250	wr

##	544	0.00000	0.16875	18.22500	188.15625	1.18125	wr
##	195	0.95625	0.11250	10.18125	74.36250	0.56250	rb
##	545	0.00000	0.22500	13.83750	178.20000	1.35000	wr
##	196	0.90000	0.56250	7.03125	56.13750	0.16875	rb
##	546	0.00000	0.16875	14.73750	193.89375	1.01250	wr
##	547	0.00000	0.16875	13.78125	190.46250	1.01250	wr
##	350	0.00000	0.16875	16.14375	162.50625	1.46250	te
##	351	0.00000	0.33750	17.15625	180.16875	1.18125	te
##	353	0.00000	0.16875	14.23125	148.33125	1.68750	te
##	548	0.00000	0.33750	15.52500	193.89375	0.90000	wr
##	549	0.11250	0.22500	15.86250	129.93750	1.01250	wr
##	354	0.00000	0.11250	14.28750	160.08750	1.40625	te
##	355	0.00000	0.16875	14.40000	159.58125	1.40625	te
##	356	0.00000	0.11250	13.72500	152.43750	1.51875	te
##	550	0.00000	0.11250	14.40000	187.59375	0.90000	wr
##	552	0.00000	0.16875	15.01875	173.30625	1.01250	wr
##	197	1.06875	0.73125	3.09375	21.48750	0.05625	rb
##	198	1.06875	0.33750	4.38750	31.89375	0.16875	rb
##	357	0.00000	0.16875	9.90000	121.78125	1.80000	te
##	200	1.12500	1.25000	5.62500	45.31250	0.18750	rb
##	199	0.84375	0.22500	4.72500	38.86875	0.11250	rb
##	358	0.00000	0.16875	11.70000	129.93750	1.40625	te
##	553	0.00000	0.11250	12.88125	163.35000	0.78750	wr
##	554	0.00000	0.11250	12.37500	155.02500	0.84375	wr
##	71	0.25000	0.50000	0.00000	0.00000	0.00000	qb
##	359	0.00000	0.11250	11.81250	132.63750	1.12500	te
##	201	0.56250	0.45000	10.06875	70.25625	0.28125	rb
##	202	0.61875	0.50625	9.05625	72.84375	0.22500	rb
##	360	0.00000	0.16875	12.71250	139.27500	0.95625	te
##	361	0.00000	0.16875	13.33125	148.78125	0.78750	te
##	555	0.00000	0.11250	11.75625	141.18750	0.90000	wr
##	203	0.39375	0.00000	5.23125	40.95000	0.22500	rb
##	556	0.00000	0.73125	10.06875	144.28125	0.78750	wr
##	362	0.00000	0.11250	11.30625	132.46875	0.95625	te
##	204	0.11250	0.00000	12.76875	95.90625	0.61875	rb
##	363	0.00000	0.39375	13.27500	130.16250	1.01250	te
##	205	0.39375	0.28125	6.46875	55.40625	0.28125	rb
##	367	0.00000	0.75000	10.81250	121.25000	1.25000	te
##	206	0.67500	1.51875	7.87500	64.23750	0.16875	rb
##	207	0.73125	0.33750	5.79375	39.20625	0.11250	rb
##	208	0.61875	0.16875	6.18750	45.61875	0.11250	rb
##	364	0.00000	0.33750	10.91250	125.66250	1.01250	te
##	365	0.00000	0.05625	9.33750	122.00625	0.90000	te
##	209	0.78750	0.28125	3.43125	28.23750	0.11250	rb
##	557	0.00000	0.73125	11.58750	146.02500	0.67500	wr
##	72	0.05625	0.45000	0.00000	0.00000	0.00000	qb
##	366	0.00000	0.16875	12.65625	128.81250	0.78750	te
##	210	0.28125	0.33750	11.19375	96.97500	0.39375	rb
##	211	0.39375	0.45000	4.50000	45.61875	0.50625	rb
##	370	0.00000	0.12500	10.62500	114.37500	0.93750	te
##	558	0.00000	0.78750	9.39375	135.22500	0.67500	wr
##	73	0.00000	0.22500	0.00000	0.00000	0.00000	qb
##	212	0.78750	0.05625	5.06250	45.67500	0.73125	rb
##	368	0.00000	0.16875	11.08125	106.93125	0.84375	te

##	369	0.00000	0.16875	10.12500	109.80000	0.78750	te
##	218	0.12500	0.06250	4.68750	38.12500	1.12500	rb
##	559	0.05625	0.11250	8.77500	111.99375	0.45000	wr
##	371	0.00000	0.11250	7.98750	97.20000	0.84375	te
##	560	0.00000	0.11250	11.47500	120.48750	0.45000	wr
##	213	0.45000	0.11250	4.27500	37.23750	0.22500	rb
##	214	0.61875	0.00000	3.65625	30.93750	0.05625	rb
##	215	0.16875	0.45000	8.71875	84.03750	0.56250	rb
##	561	0.00000	0.05625	7.14375	101.30625	0.61875	wr
##	216	0.39375	0.05625	6.80625	54.56250	0.16875	rb
##	217	0.45000	0.11250	6.86250	50.73750	0.28125	rb
##	562	0.00000	0.11250	7.03125	100.12500	0.56250	wr
##	372	0.00000	0.11250	8.04375	80.49375	0.90000	te
##	373	0.00000	0.16875	8.83125	92.53125	0.73125	te
##	374	0.00000	0.00000	5.40000	61.87500	1.18125	te
##	563	0.00000	0.73125	8.43750	99.16875	0.78750	wr
##	219	0.39375	0.05625	4.16250	32.40000	0.05625	rb
##	564	0.00000	0.16875	5.56875	78.41250	0.73125	wr
##	220	0.39375	0.11250	3.26250	26.15625	0.05625	rb
##	221	0.33750	0.05625	3.88125	33.46875	0.11250	rb
##	226	0.12500	0.18750	7.87500	63.00000	0.31250	rb
##	565	0.00000	0.61875	7.53750	101.19375	0.56250	wr
##	222	0.50625	0.22500	2.64375	19.29375	0.11250	rb
##	223	0.45000	0.22500	1.01250	8.32500	0.00000	rb
##	378	0.00000	0.06250	7.87500	82.31250	0.62500	te
##	375	0.00000	0.11250	9.16875	92.98125	0.50625	te
##	224	0.39375	0.00000	5.34375	45.11250	0.22500	rb
##	566	0.00000	0.16875	8.15625	97.76250	0.39375	wr
##	567	0.00000	0.05625	7.48125	94.66875	0.39375	wr
##	571	0.00000	0.06250	6.93750	91.12500	0.43750	wr
##	568	0.00000	0.05625	6.24375	86.06250	0.50625	wr
##	376	0.00000	0.05625	8.66250	83.53125	0.56250	te
##	377	0.00000	0.05625	7.81875	87.91875	0.45000	te
##	381	0.00000	0.25000	7.68750	91.37500	0.43750	te
##	225	0.00000	0.00000	4.10625	47.81250	1.06875	rb
##	227	0.56250	0.22500	4.55625	30.54375	0.11250	rb
##	569	0.00000	0.56250	7.87500	96.97500	0.33750	wr
##	570	0.00000	0.11250	6.24375	86.34375	0.39375	wr
##	576	0.00000	0.00000	5.25000	84.50000	0.37500	wr
##	228	0.11250	0.00000	4.44375	36.11250	0.05625	rb
##	229	0.00000	0.00000	5.62500	47.25000	0.56250	rb
##	379	0.00000	0.39375	8.88750	85.38750	0.45000	te
##	572	0.00000	0.11250	6.58125	83.41875	0.39375	wr
##	573	0.00000	0.16875	5.73750	74.36250	0.39375	wr
##	577	0.00000	0.06250	6.31250	82.37500	0.37500	wr
##	380	0.00000	0.16875	7.20000	75.09375	0.50625	te
##	230	0.28125	0.22500	1.74375	14.06250	0.05625	rb
##	382	0.00000	0.16875	7.81875	75.60000	0.50625	te
##	231	0.28125	0.22500	1.57500	11.19375	0.05625	rb
##	383	0.00000	0.05625	5.45625	60.41250	0.67500	te
##	574	0.00000	0.11250	6.30000	82.35000	0.33750	wr
##	74	0.00000	0.22500	0.00000	0.00000	0.00000	qb
##	575	0.00000	0.00000	5.68125	72.11250	0.45000	wr
##	582	0.00000	0.06250	4.81250	73.75000	0.43750	wr

## 578	0.00000	0.00000	6.18750	74.53125	0.28125	wr
## 232	0.00000	0.00000	7.08750	53.26875	0.50625	rb
## 233	0.11250	0.11250	5.73750	44.77500	0.50625	rb
## 579	0.00000	0.00000	5.06250	69.07500	0.39375	wr
## 580	0.00000	0.11250	5.79375	75.48750	0.28125	wr
## 581	0.00000	0.00000	5.00625	66.20625	0.39375	wr
## 234	0.45000	0.11250	2.02500	14.23125	0.05625	rb
## 384	0.00000	0.00000	5.28750	61.20000	0.45000	te
## 235	0.00000	0.95625	11.02500	83.75625	0.33750	rb
## 236	0.22500	0.05625	4.05000	27.84375	0.11250	rb
## 583	0.00000	0.05625	4.66875	60.41250	0.39375	wr
## 385	0.00000	0.16875	5.40000	60.75000	0.39375	te
## 386	0.00000	0.11250	6.58125	58.44375	0.45000	te
## 237	0.22500	0.00000	3.09375	19.35000	0.05625	rb
## 238	0.28125	0.05625	2.98125	23.45625	0.05625	rb
## 239	0.22500	0.05625	3.65625	32.17500	0.16875	rb
## 244	0.12500	0.00000	4.68750	38.25000	0.12500	rb
## 240	0.16875	0.00000	4.89375	37.96875	0.33750	rb
## 241	0.11250	0.33750	3.60000	14.06250	0.90000	rb
## 75	0.05625	0.11250	0.00000	0.00000	0.00000	qb
## 387	0.00000	0.00000	4.33125	56.86875	0.33750	te
## 587	0.00000	0.06250	4.18750	54.25000	0.37500	wr
## 588	0.00000	0.00000	3.50000	52.87500	0.37500	wr
## 388	0.00000	0.00000	4.61250	53.38125	0.39375	te
## 242	0.11250	0.00000	4.95000	42.58125	0.11250	rb
## 584	0.00000	0.00000	4.78125	65.41875	0.16875	wr
## 249	0.12500	0.12500	5.81250	41.87500	0.37500	rb
## 585	0.00000	0.05625	4.61250	59.23125	0.22500	wr
## 243	0.39375	0.22500	1.85625	16.81875	0.11250	rb
## 389	0.00000	0.84375	6.80625	74.81250	0.22500	te
## 390	0.00000	0.00000	4.55625	48.26250	0.39375	te
## 391	0.00000	0.05625	4.27500	48.88125	0.39375	te
## 245	0.39375	0.05625	1.29375	9.39375	0.00000	rb
## 586	0.00000	0.00000	4.44375	60.46875	0.16875	wr
## 76	0.00000	0.05625	0.00000	0.00000	0.00000	qb
## 246	0.00000	0.05625	4.89375	43.93125	0.39375	rb
## 247	0.00000	0.05625	4.44375	35.66250	0.16875	rb
## 392	0.00000	0.00000	5.06250	48.93750	0.28125	te
## 248	0.16875	0.05625	3.15000	25.48125	0.05625	rb
## 253	0.25000	0.06250	2.06250	13.31250	0.00000	rb
## 250	0.11250	0.05625	3.03750	30.31875	0.05625	rb
## 251	0.11250	0.05625	3.76875	32.40000	0.16875	rb
## 255	0.25000	0.12500	1.37500	10.31250	0.06250	rb
## 591	0.06250	0.06250	2.37500	30.50000	0.18750	wr
## 252	0.11250	0.05625	3.43125	28.18125	0.16875	rb
## 256	0.00000	0.06250	5.68750	42.62500	0.18750	rb
## 393	0.00000	0.00000	3.15000	38.98125	0.33750	te
## 77	0.00000	0.11250	0.00000	0.00000	0.00000	qb
## 78	0.00000	0.16875	0.00000	0.00000	0.00000	qb
## 394	0.00000	0.00000	2.64375	34.08750	0.39375	te
## 589	0.00000	0.00000	3.48750	44.88750	0.22500	wr
## 254	0.16875	0.05625	1.06875	9.67500	0.00000	rb
## 395	0.00000	0.05625	3.60000	33.52500	0.39375	te
## 590	0.00000	0.00000	1.96875	34.36875	0.39375	wr

##	396	0.00000	0.00000	4.55625	41.23125	0.22500	te
##	397	0.00000	0.05625	3.54375	40.38750	0.22500	te
##	592	0.00000	0.00000	3.37500	45.95625	0.16875	wr
##	79	0.00000	0.05625	0.00000	0.00000	0.00000	qb
##	398	0.00000	0.05625	3.60000	40.78125	0.22500	te
##	598	0.00000	0.00000	3.62500	44.93750	0.12500	wr
##	593	0.00000	0.00000	3.15000	39.71250	0.22500	wr
##	399	0.00000	0.00000	2.64375	33.30000	0.33750	te
##	594	0.00000	0.00000	3.54375	39.65625	0.22500	wr
##	257	0.11250	0.00000	2.41875	20.08125	0.05625	rb
##	400	0.00000	0.00000	2.92500	34.03125	0.33750	te
##	258	0.16875	0.00000	2.08125	17.32500	0.05625	rb
##	259	0.16875	0.00000	2.58750	17.71875	0.05625	rb
##	595	0.00000	0.00000	2.98125	36.00000	0.22500	wr
##	80	0.00000	0.22500	0.00000	0.00000	0.00000	qb
##	596	0.00000	0.00000	3.20625	40.33125	0.16875	wr
##	81	0.00000	0.05625	0.00000	0.00000	0.00000	qb
##	260	0.11250	0.05625	2.75625	19.46250	0.05625	rb
##	597	0.00000	0.00000	2.70000	34.31250	0.22500	wr
##	261	0.28125	0.00000	0.78750	4.10625	0.00000	rb
##	262	0.00000	0.05625	4.16250	35.43750	0.22500	rb
##	263	0.11250	0.05625	3.26250	26.55000	0.05625	rb
##	599	0.00000	0.00000	3.09375	40.27500	0.11250	wr
##	82	0.00000	0.11250	0.00000	0.00000	0.00000	qb
##	600	0.00000	0.00000	2.86875	36.33750	0.16875	wr
##	401	0.00000	0.05625	3.15000	30.99375	0.22500	te
##	264	0.16875	0.11250	1.51875	10.01250	0.05625	rb
##	402	0.00000	0.00000	3.26250	30.82500	0.22500	te
##	83	0.00000	0.05625	0.00000	0.00000	0.00000	qb
##	265	0.05625	0.00000	2.13750	20.53125	0.05625	rb
##	403	0.00000	0.05625	2.92500	31.16250	0.22500	te
##	601	0.00000	0.05625	2.64375	33.58125	0.16875	wr
##	87	0.00000	0.06250	0.00000	0.00000	0.00000	qb
##	611	0.00000	0.06250	2.87500	33.43750	0.18750	wr
##	613	0.00000	0.06250	2.75000	34.50000	0.18750	wr
##	404	0.00000	0.00000	2.02500	20.81250	0.39375	te
##	602	0.00000	0.00000	2.86875	33.69375	0.16875	wr
##	603	0.00000	0.00000	2.64375	31.21875	0.22500	wr
##	84	0.00000	0.22500	0.00000	0.00000	0.00000	qb
##	270	0.12500	0.00000	1.93750	14.06250	0.06250	rb
##	85	0.00000	0.05625	0.00000	0.00000	0.00000	qb
##	86	0.00000	0.11250	0.00000	0.00000	0.00000	qb
##	405	0.00000	0.00000	2.86875	29.25000	0.22500	te
##	604	0.00000	0.00000	2.41875	32.06250	0.16875	wr
##	605	0.00000	0.00000	2.64375	34.93125	0.11250	wr
##	606	0.00000	0.00000	2.47500	34.42500	0.11250	wr
##	607	0.00000	0.00000	2.64375	37.91250	0.05625	wr
##	266	0.11250	0.00000	1.46250	10.80000	0.00000	rb
##	406	0.00000	0.00000	3.20625	27.39375	0.22500	te
##	267	0.11250	0.05625	1.51875	10.51875	0.05625	rb
##	608	0.00000	0.00000	2.41875	30.15000	0.16875	wr
##	609	0.00000	0.00000	2.70000	33.97500	0.11250	wr
##	610	0.00000	0.00000	1.80000	28.01250	0.22500	wr
##	268	0.16875	0.11250	1.91250	12.76875	0.05625	rb

##	612	0.00000	0.05625	2.53125	34.48125	0.11250	wr
##	618	0.00000	0.00000	2.81250	33.43750	0.12500	wr
##	269	0.05625	0.00000	2.19375	18.56250	0.05625	rb
##	407	0.00000	0.00000	2.81250	30.88125	0.11250	te
##	614	0.00000	0.00000	2.19375	30.09375	0.11250	wr
##	408	0.00000	0.00000	1.46250	23.23125	0.22500	te
##	625	0.00000	0.00000	2.25000	29.81250	0.12500	wr
##	271	0.11250	0.05625	1.51875	15.01875	0.11250	rb
##	615	0.00000	0.00000	2.36250	29.25000	0.11250	wr
##	616	0.00000	0.00000	2.30625	29.81250	0.11250	wr
##	617	0.00000	0.00000	1.91250	25.03125	0.22500	wr
##	409	0.00000	0.00000	2.19375	27.05625	0.16875	te
##	88	0.05625	0.05625	0.00000	0.00000	0.00000	qb
##	89	0.00000	0.05625	0.00000	0.00000	0.00000	qb
##	272	0.11250	0.05625	0.95625	7.93125	0.05625	rb
##	410	0.00000	0.00000	2.08125	25.08750	0.16875	te
##	619	0.00000	0.00000	3.03750	34.48125	0.00000	wr
##	620	0.00000	0.00000	2.70000	29.25000	0.11250	wr
##	621	0.00000	0.00000	2.02500	25.87500	0.16875	wr
##	622	0.00000	0.00000	2.75625	32.51250	0.05625	wr
##	623	0.00000	0.00000	2.19375	25.53750	0.16875	wr
##	273	0.00000	0.00000	2.64375	20.25000	0.11250	rb
##	411	0.00000	0.00000	2.19375	25.03125	0.16875	te
##	624	0.00000	0.00000	1.96875	25.93125	0.11250	wr
##	274	0.05625	0.00000	1.85625	14.11875	0.05625	rb
##	626	0.00000	0.00000	2.36250	27.00000	0.11250	wr
##	627	0.00000	0.00000	3.37500	32.06250	0.00000	wr
##	628	0.00000	0.00000	2.13750	25.70625	0.11250	wr
##	277	0.12500	0.06250	1.56250	15.43750	0.06250	rb
##	416	0.00000	0.00000	2.18750	21.37500	0.18750	te
##	412	0.00000	0.00000	2.53125	21.15000	0.16875	te
##	413	0.00000	0.00000	1.80000	19.35000	0.22500	te
##	282	0.12500	0.06250	1.50000	12.50000	0.06250	rb
##	275	0.05625	0.00000	1.29375	9.33750	0.00000	rb
##	276	0.05625	0.05625	1.12500	8.55000	0.00000	rb
##	629	0.00000	0.05625	1.68750	23.51250	0.11250	wr
##	630	0.00000	0.00000	2.41875	26.04375	0.05625	wr
##	414	0.00000	0.00000	2.25000	19.85625	0.16875	te
##	278	0.16875	0.00000	0.84375	5.79375	0.00000	rb
##	279	0.11250	0.00000	0.84375	6.52500	0.00000	rb
##	280	0.00000	0.00000	2.02500	16.48125	0.16875	rb
##	415	0.00000	0.00000	1.96875	21.54375	0.11250	te
##	417	0.00000	0.00000	1.85625	21.20625	0.11250	te
##	631	0.00000	0.00000	1.74375	22.95000	0.11250	wr
##	632	0.00000	0.00000	1.68750	22.55625	0.11250	wr
##	633	0.00000	0.00000	2.92500	27.84375	0.00000	wr
##	634	0.00000	0.00000	2.47500	28.01250	0.00000	wr
##	281	0.00000	0.00000	1.46250	13.33125	0.16875	rb
##	418	0.00000	0.00000	2.30625	21.15000	0.11250	te
##	419	0.00000	0.05625	2.13750	21.71250	0.11250	te
##	283	0.05625	0.00000	1.35000	9.45000	0.00000	rb
##	422	0.00000	0.00000	1.81250	17.62500	0.12500	te
##	423	0.00000	0.00000	1.62500	18.00000	0.12500	te
##	636	0.00000	0.06250	1.62500	21.56250	0.06250	wr

## 284	0.11250	0.05625	0.78750	5.23125	0.00000	rb
## 285	0.05625	0.00000	2.53125	14.73750	0.05625	rb
## 90	0.05625	0.05625	0.00000	0.00000	0.00000	qb
## 286	0.00000	0.05625	1.18125	11.98125	0.00000	rb
## 420	0.00000	0.00000	1.85625	19.29375	0.11250	te
## 287	0.05625	0.00000	1.29375	9.22500	0.05625	rb
## 421	0.00000	0.00000	2.02500	20.58750	0.05625	te
## 635	0.00000	0.00000	1.51875	18.67500	0.11250	wr
## 91	0.05625	0.11250	0.00000	0.00000	0.00000	qb
## 637	0.00000	0.00000	1.57500	18.90000	0.11250	wr
## 644	0.00000	0.06250	2.18750	23.25000	0.06250	wr
## 288	0.11250	0.05625	0.56250	4.21875	0.00000	rb
## 638	0.00000	0.00000	1.35000	17.60625	0.11250	wr
## 424	0.00000	0.00000	1.51875	15.35625	0.11250	te
## 639	0.00000	0.00000	1.46250	18.33750	0.05625	wr
## 640	0.00000	0.00000	1.51875	18.22500	0.11250	wr
## 289	0.11250	0.05625	0.33750	2.75625	0.00000	rb
## 292	0.00000	0.00000	1.25000	12.50000	0.00000	rb
## 425	0.00000	0.00000	1.46250	15.18750	0.11250	te
## 426	0.00000	0.00000	1.80000	17.10000	0.11250	te
## 641	0.00000	0.00000	1.46250	16.98750	0.11250	wr
## 642	0.00000	0.00000	0.73125	9.90000	0.05625	wr
## 92	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 428	0.00000	0.00000	1.25000	14.31250	0.12500	te
## 427	0.00000	0.00000	1.74375	13.50000	0.11250	te
## 643	0.00000	0.00000	1.35000	18.73125	0.05625	wr
## 645	0.00000	0.00000	1.29375	19.12500	0.05625	wr
## 290	0.11250	0.00000	0.33750	2.70000	0.05625	rb
## 646	0.00000	0.00000	1.23750	16.98750	0.05625	wr
## 291	0.11250	0.05625	0.39375	1.23750	0.00000	rb
## 93	0.00000	0.06250	0.00000	0.00000	0.00000	qb
## 293	0.05625	0.05625	1.12500	9.39375	0.05625	rb
## 294	0.05625	0.00000	1.01250	7.14375	0.00000	rb
## 647	0.00000	0.00000	0.90000	14.06250	0.11250	wr
## 295	0.00000	0.05625	1.57500	12.43125	0.05625	rb
## 429	0.00000	0.00000	1.01250	11.36250	0.11250	te
## 648	0.00000	0.00000	1.40625	15.91875	0.05625	wr
## 649	0.00000	0.00000	1.06875	16.08750	0.05625	wr
## 430	0.00000	0.00000	1.12500	12.48750	0.11250	te
## 650	0.00000	0.00000	0.90000	13.21875	0.11250	wr
## 94	0.00000	0.05625	0.00000	0.00000	0.00000	qb
## 431	0.00000	0.00000	1.46250	10.51875	0.11250	te
## 296	0.05625	0.00000	0.95625	5.51250	0.05625	rb
## 95	0.00000	0.11250	0.00000	0.00000	0.00000	qb
## 297	0.00000	0.00000	1.40625	8.55000	0.00000	rb
## 432	0.00000	0.00000	0.95625	10.96875	0.05625	te
## 96	0.00000	0.05625	0.00000	0.00000	0.00000	qb
## 298	0.05625	0.00000	0.56250	3.03750	0.00000	rb
## 433	0.00000	0.00000	1.01250	11.08125	0.05625	te
## 651	0.00000	0.00000	0.84375	11.08125	0.05625	wr
## 434	0.00000	0.00000	0.84375	9.67500	0.05625	te
## 436	0.00000	0.00000	0.93750	10.50000	0.06250	te
## 299	0.05625	0.05625	0.00000	0.00000	0.00000	rb
## 652	0.00000	0.05625	1.06875	11.41875	0.05625	wr

## 653	0.00000	0.00000	0.78750	10.23750	0.05625	wr
## 97	0.00000	0.11250	0.00000	0.00000	0.00000	qb
## 435	0.00000	0.00000	0.78750	9.11250	0.05625	te
## 654	0.00000	0.00000	0.67500	9.33750	0.05625	wr
## 300	0.05625	0.00000	0.33750	3.20625	0.00000	rb
## 437	0.00000	0.00000	1.23750	9.22500	0.05625	te
## 98	0.00000	0.05625	0.00000	0.00000	0.00000	qb
## 301	0.05625	0.00000	0.28125	2.19375	0.00000	rb
## 302	0.05625	0.00000	0.00000	0.00000	0.00000	rb
## 655	0.00000	0.00000	0.56250	10.12500	0.00000	wr
## 303	0.06250	0.00000	0.31250	0.62500	0.00000	rb
## 99	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 34	0.00000	0.00000	0.00000	0.00000	0.00000	k
## 438	0.00000	0.00000	0.56250	5.68125	0.05625	te
## 439	0.00000	0.00000	0.45000	4.33125	0.05625	te
## 100	0.00000	0.05625	0.00000	0.00000	0.00000	qb
## 304	0.05625	0.00000	0.00000	0.00000	0.00000	rb
## 656	0.00000	0.05625	0.84375	6.91875	0.00000	wr
## 101	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 102	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 103	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 104	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 305	0.00000	0.00000	0.22500	1.80000	0.00000	rb
## 306	0.00000	0.00000	0.16875	1.23750	0.00000	rb
## 307	0.00000	0.00000	0.22500	2.13750	0.00000	rb
## 308	0.00000	0.00000	0.18750	1.68750	0.00000	rb
## 441	0.00000	0.00000	0.25000	2.25000	0.00000	te
## 309	0.00000	0.00000	0.16875	1.35000	0.00000	rb
## 440	0.00000	0.00000	0.39375	1.85625	0.00000	te
## 311	0.00000	0.00000	0.06250	0.75000	0.00000	rb
## 310	0.00000	0.00000	0.05625	0.50625	0.00000	rb
## 105	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 106	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 312	0.00000	0.00000	0.05625	0.22500	0.00000	rb
## 313	0.00000	0.00000	0.05625	0.22500	0.00000	rb
## 107	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 108	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 109	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 110	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 111	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 112	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 113	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 114	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 115	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 116	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 117	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 118	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 119	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 120	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 121	0.00000	0.00000	0.00000	0.00000	0.00000	qb
## 314	0.00000	0.00000	0.00000	0.00000	0.00000	rb
## 315	0.00000	0.00000	0.00000	0.00000	0.00000	rb
## 316	0.00000	0.00000	0.00000	0.00000	0.00000	rb
## 442	0.00000	0.05625	0.05625	0.67500	0.00000	te


```

##
## $nTeams
## [1] 10
##
## $cap
## [1] 200
##
## $posReq
## $posReq$qb
## [1] 1
##
## $posReq$rb
## [1] 2
##
## $posReq$wr
## [1] 3
##
## $posReq$te
## [1] 1
##
## $posReq$k
## [1] 1
##
##
## $points
## $points$fg
## [1] 4
##
## $points$xpt
## [1] 1
##
## $points$pass_yds
## [1] 0.04
##
## $points$pass_tds
## [1] 4
##
## $points$pass_ints
## [1] -2
##
## $points$rush_yds
## [1] 0.1
##
## $points$rush_tds
## [1] 6
##
## $points$fumbles
## [1] -2
##
## $points$rec_yds
## [1] 0.05
##
## $points$rec_tds
## [1] 6

```

```
##function to calculate points

calcPoints <- function(league) {

  # convert NFL stat to fantasy points
  league$stats[, 'p_fg'] <- league$stats[, 'fg'] * as.numeric(league$points["fg"])
  league$stats[, 'p_xpt'] <- league$stats[, 'xpt'] * as.numeric(league$points["xpt"])
  league$stats[, 'p_pass_yds'] <- league$stats[, 'pass_yds'] * as.numeric(league$points["pass_yds"])
  league$stats[, 'p_pass_tds'] <- league$stats[, 'pass_tds'] * as.numeric(league$points["pass_tds"])
  league$stats[, 'p_pass_ints'] <- league$stats[, 'pass_ints'] * as.numeric(league$points["pass_ints"])
  league$stats[, 'p_rush_yds'] <- league$stats[, 'rush_yds'] * as.numeric(league$points["rush_yds"])
  league$stats[, 'p_rush_tds'] <- league$stats[, 'rush_tds'] * as.numeric(league$points["rush_tds"])
  league$stats[, 'p_fumbles'] <- league$stats[, 'fumbles'] * as.numeric(league$points["fumbles"])
  league$stats[, 'p_rec_yds'] <- league$stats[, 'rec_yds'] * as.numeric(league$points["rec_yds"])
  league$stats[, 'p_rec_tds'] <- league$stats[, 'rec_tds'] * as.numeric(league$points["rec_tds"])

  # sum selected column values for every row
  # this is total fantasy points for each player
  league$stats[, 'points'] <- rowSums(league$stats[, grep("^p_", names(league$stats))])

  return(league$stats)
}

##test

head(calcPoints(1))
```

```
##      PlayerName Team fg fga xpt      fpts pass_att pass_cmp pass_yds
## 39      Drew Brees  NO  0   0   0 184.3125 387.7500 259.1875 3014.938
## 35      Andrew Luck  IND  0   0   0 183.7687 359.6625 221.0062 2654.156
## 36      Aaron Rodgers  GB  0   0   0 180.7313 307.4625 199.0125 2458.294
## 37      Russell Wilson  SEA  0   0   0 168.5812 260.4375 160.4250 2002.331
## 42 Ben Roethlisberger  PIT  0   0   0 167.6250 372.1250 241.6250 2845.938
## 38      Peyton Manning  DEN  0   0   0 167.5125 337.1625 222.6375 2624.287
##      pass_tds pass_ints rush_att  rush_yds rush_tds fumbles rec_att rec_yds
## 39 19.50000  8.87500 17.18750 40.43750  0.75000 2.56250      0      0
## 35 19.85625  9.00000 31.16250 144.73125  1.29375 3.09375      0      0
## 36 19.40625  5.00625 27.61875 137.64375  1.12500 2.75625      0      0
## 37 14.00625  5.96250 58.33125 362.58750  2.19375 2.41875      0      0
## 42 17.81250  8.37500 17.62500 42.87500  0.25000 3.31250      0      0
## 38 19.80000  7.42500 14.96250  5.45625  0.28125 1.96875      0      0
##      rec_tds pos p_fg p_xpt p_pass_yds p_pass_tds p_pass_ints p_rush_yds
## 39      0 qb      0      0 120.59750  78.000  -17.7500  4.043750
## 35      0 qb      0      0 106.16625  79.425  -18.0000 14.473125
## 36      0 qb      0      0  98.33175  77.625  -10.0125 13.764375
## 37      0 qb      0      0  80.09325  56.025  -11.9250 36.258750
## 42      0 qb      0      0 113.83750  71.250  -16.7500  4.287500
## 38      0 qb      0      0 104.97150  79.200  -14.8500  0.545625
##      p_rush_tds p_fumbles p_rec_yds p_rec_tds  points
## 39      4.5000  -5.1250      0      0 184.2662
## 35      7.7625  -6.1875      0      0 183.6394
## 36      6.7500  -5.5125      0      0 180.9461
## 37     13.1625  -4.8375      0      0 168.7770
```

```
## 42      1.5000   -6.6250      0      0 167.5000
## 38      1.6875   -3.9375      0      0 167.6171
```

```
##build values function

buildValues <- function(league){

  # convert NFL stat to fantasy points
  league$stats[, 'p_fg'] <- league$stats[, 'fg']*as.numeric(league$points["fg"])
  league$stats[, 'p_xpt'] <- league$stats[, 'xpt']*as.numeric(league$points["xpt"])
  league$stats[, 'p_pass_yds'] <- league$stats[, 'pass_yds']*as.numeric(league$points["pass_yds"])
  league$stats[, 'p_pass_tds'] <- league$stats[, 'pass_tds']*as.numeric(league$points["pass_tds"])
  league$stats[, 'p_pass_ints'] <- league$stats[, 'pass_ints']*as.numeric(league$points["pass_ints"])
  league$stats[, 'p_rush_yds'] <- league$stats[, 'rush_yds']*as.numeric(league$points["rush_yds"])
  league$stats[, 'p_rush_tds'] <- league$stats[, 'rush_tds']*as.numeric(league$points["rush_tds"])
  league$stats[, 'p_fumbles'] <- league$stats[, 'fumbles']*as.numeric(league$points["fumbles"])
  league$stats[, 'p_rec_yds'] <- league$stats[, 'rec_yds']*as.numeric(league$points["rec_yds"])
  league$stats[, 'p_rec_tds'] <- league$stats[, 'rec_tds']*as.numeric(league$points["rec_tds"])

  # sum selected column values for every row
  # this is total fantasy points for each player
  league$stats[, 'points'] <- rowSums(league$stats[,grep("^p_", names(league$stats))])

  ## calculate dollar values
  # create new data.frame ordered by points descendingly
  stats2 <- league$stats[order(league$stats[, 'points'], decreasing=TRUE),]

  # determine the row indeces for each position
  k.ix <- which(stats2[, 'pos']=='k')
  qb.ix <- which(stats2[, 'pos']=='qb')
  rb.ix <- which(stats2[, 'pos']=='rb')
  te.ix <- which(stats2[, 'pos']=='te')
  wr.ix <- which(stats2[, 'pos']=='wr')

  # calculate marginal points by subtracting "baseline" player's points
  stats2[k.ix, 'marg'] <- stats2[k.ix, 'points'] - stats2[k.ix[12], 'points']
  stats2[qb.ix, 'marg'] <- stats2[qb.ix, 'points'] - stats2[qb.ix[12], 'points']
  stats2[rb.ix, 'marg'] <- stats2[rb.ix, 'points'] - stats2[rb.ix[24], 'points']
  stats2[te.ix, 'marg'] <- stats2[te.ix, 'points'] - stats2[te.ix[12], 'points']
  stats2[wr.ix, 'marg'] <- stats2[wr.ix, 'points'] - stats2[wr.ix[36], 'points']

  # create a new data.frame subset by non-negative marginal points
  stats3 <- stats2[stats2[, 'marg'] >= 0,]

  # re-order by marginal points
  stats3 <- stats3[order(stats3[, 'marg'], decreasing=TRUE),]

  # reset the row names
  rownames(stats3) <- NULL

  # calculation for player value
  stats3[, 'value'] <- stats3[, 'marg']*(12*200-nrow(stats3))/sum(stats3[, 'marg']) + 1
```

```

# create a data.frame with more interesting columns
stats4 <- stats3[,c('PlayerName','pos','points','marg','value')]

# add all players with a value of 0 dollars
stats_shittyplayers <- stats2[stats2[, 'marg'] < 0,]
stats_shittyplayers[, 'value'] <- 0
stats_shittyplayers <- stats_shittyplayers[,c('PlayerName','pos','points','marg','value')]
stats5 <- rbind(stats4,stats_shittyplayers)

## return data.frame with dollar values
return(stats5)
}

##test

buildValues(1)

```

##	PlayerName	pos	points	marg	value
## 1	Marshawn Lynch	rb	120.0150000	44.8678125	81.305540
## 2	Antonio Brown	wr	84.5062500	43.4071875	78.691277
## 3	Le'Veon Bell	rb	118.4812500	43.3340625	78.560396
## 4	Adrian Peterson	rb	118.1306250	42.9834375	77.932839
## 5	Eddie Lacy	rb	117.7087500	42.5615625	77.177756
## 6	Jamaal Charles	rb	117.2643750	42.1171875	76.382403
## 7	Odell Beckham Jr.	wr	81.8312500	40.7321875	73.903495
## 8	Demaryius Thomas	wr	77.4675000	36.3684375	66.093145
## 9	Drew Brees	qb	184.2662500	36.3287500	66.022111
## 10	Andrew Luck	qb	183.6393750	35.7018750	64.900115
## 11	Dez Bryant	wr	74.8012500	33.7021875	61.321024
## 12	Aaron Rodgers	qb	180.9461250	33.0086250	60.079668
## 13	C.J. Anderson	rb	106.8271875	31.6800000	57.701662
## 14	Rob Gronkowski	te	63.1181250	31.0556250	56.584139
## 15	Matt Forte	rb	104.4815625	29.3343750	53.503403
## 16	Calvin Johnson	wr	70.4081250	29.3090625	53.458098
## 17	Randall Cobb	wr	70.2365625	29.1375000	53.151031
## 18	LeSean McCoy	rb	103.4493750	28.3021875	51.655968
## 19	DeMarco Murray	rb	102.5859375	27.4387500	50.110566
## 20	Jeremy Hill	rb	102.5156250	27.3684375	49.984718
## 21	Mark Ingram	rb	101.4093750	26.2621875	48.004724
## 22	Julio Jones	wr	66.6871875	25.5881250	46.798270
## 23	Alshon Jeffery	wr	63.0421875	21.9431250	40.274358
## 24	A.J. Green	wr	62.7468750	21.6478125	39.745800
## 25	Russell Wilson	qb	168.7770000	20.8395000	38.299062
## 26	Peyton Manning	qb	167.6171250	19.6796250	36.223088
## 27	Ben Roethlisberger	qb	167.5000000	19.5625000	36.013455
## 28	Jimmy Graham	te	51.6121875	19.5496875	35.990523
## 29	Mike Evans	wr	60.5446875	19.4456250	35.804269
## 30	Brandin Cooks	wr	59.7187500	18.6196875	34.325985
## 31	Emmanuel Sanders	wr	58.2103125	17.1112500	31.626146
## 32	T.Y. Hilton	wr	58.1821875	17.0831250	31.575807
## 33	Lamar Miller	rb	91.1953125	16.0481250	29.723338

## 34	Justin Forsett	rb	90.9759375	15.8287500	29.330695
## 35	Alfred Morris	rb	89.2040625	14.0568750	26.159349
## 36	Jordan Matthews	wr	52.4896875	11.3906250	21.387227
## 37	Matt Ryan	qb	159.0682500	11.1307500	20.922097
## 38	Eli Manning	qb	158.6250000	10.6875000	20.128757
## 39	Melvin Gordon	rb	85.8206250	10.6734375	20.103587
## 40	Carlos Hyde	rb	85.5084375	10.3612500	19.544826
## 41	Greg Olsen	te	42.3646875	10.3021875	19.439115
## 42	Travis Kelce	te	42.1003125	10.0378125	18.965930
## 43	Martavis Bryant	wr	50.9687500	9.8696875	18.665015
## 44	DeAndre Hopkins	wr	50.7093750	9.6103125	18.200779
## 45	Frank Gore	rb	84.7546875	9.6075000	18.195745
## 46	Julian Edelman	wr	50.3128125	9.2137500	17.491002
## 47	Stephen Gostkowski	k	93.2062500	9.0562500	17.209104
## 48	Andre Johnson	wr	49.5112500	8.4121875	16.056345
## 49	Latavius Murray	rb	83.3118750	8.1646875	15.613363
## 50	Martellus Bennett	te	40.1821875	8.1196875	15.532821
## 51	Jason Witten	te	40.1709375	8.1084375	15.512686
## 52	Garrett Hartley	k	92.1875000	8.0375000	15.385720
## 53	DeSean Jackson	wr	48.6056250	7.5065625	14.435435
## 54	Davante Adams	wr	48.0881250	6.9890625	13.509200
## 55	Sammy Watkins	wr	47.7928125	6.6937500	12.980642
## 56	Justin Tucker	k	90.2812500	6.1312500	11.973866
## 57	Golden Tate	wr	47.1656250	6.0665625	11.858086
## 58	Jeremy Maclin	wr	46.7128125	5.6137500	11.047631
## 59	Josh Brown	k	89.6250000	5.4750000	10.799293
## 60	Cam Newton	qb	153.3768750	5.4393750	10.735530
## 61	Keenan Allen	wr	46.5187500	5.4196875	10.700293
## 62	Brandon Marshall	wr	46.3246875	5.2256250	10.352955
## 63	Steven Hauschka	k	89.3250000	5.1750000	10.262345
## 64	Julius Thomas	te	37.2375000	5.1750000	10.262345
## 65	Dustin Hopkins	k	88.7500000	4.6000000	9.233196
## 66	Cody Parkey	k	88.2000000	4.0500000	8.248792
## 67	Connor Barth	k	88.1437500	3.9937500	8.148114
## 68	Mason Crosby	k	87.9750000	3.8250000	7.846081
## 69	Dwayne Allen	te	35.7525000	3.6900000	7.604455
## 70	Joseph Randle	rb	78.5700000	3.4228125	7.126236
## 71	Rashad Jennings	rb	78.4406250	3.2934375	6.894677
## 72	Tony Romo	qb	150.8692500	2.9317500	6.247320
## 73	Adam Vinatieri	k	86.7375000	2.5875000	5.631173
## 74	Zach Ertz	te	34.5431250	2.4806250	5.439885
## 75	Marques Colston	wr	43.3562500	2.2571875	5.039971
## 76	Mike Wallace	wr	43.2196875	2.1206250	4.795548
## 77	Vincent Jackson	wr	43.2028125	2.1037500	4.765345
## 78	Matthew Stafford	qb	149.7622500	1.8247500	4.265983
## 79	Amari Cooper	wr	42.7528125	1.6537500	3.959923
## 80	Jonathan Stewart	rb	76.1568750	1.0096875	2.807164
## 81	Eric Decker	wr	42.0637500	0.9646875	2.726622
## 82	Roddy White	wr	41.9146875	0.8156250	2.459826
## 83	Jarvis Landry	wr	41.8162500	0.7171875	2.283640
## 84	Michael Floyd	wr	41.7571875	0.6581250	2.177929
## 85	LeGarrette Blount	rb	75.7940625	0.6468750	2.157793
## 86	Victor Cruz	wr	41.7093750	0.6103125	2.092353
## 87	Isaiah Crowell	rb	75.6062500	0.4590625	1.821642

## 88	Coby Fleener	te	32.3831250	0.3206250	1.573863
## 89	Matt Bryant	k	84.3750000	0.2250000	1.402711
## 90	Steve Smith	wr	41.2734375	0.1743750	1.312101
## 91	Jordan Cameron	te	32.2031250	0.1406250	1.251694
## 92	Ryan Tannehill	qb	147.9375000	0.0000000	1.000000
## 93	Dan Bailey	k	84.1500000	0.0000000	1.000000
## 94	T.J. Yeldon	rb	75.1471875	0.0000000	1.000000
## 95	Nelson Agholor	wr	41.0990625	0.0000000	1.000000
## 96	Antonio Gates	te	32.0625000	0.0000000	1.000000
## 461	Philip Rivers	qb	145.3623750	-2.5751250	0.000000
## 484	Colin Kaepernick	qb	141.6296250	-6.3078750	0.000000
## 4910	Joe Flacco	qb	137.4536250	-10.4838750	0.000000
## 5010	Jay Cutler	qb	136.6076250	-11.3298750	0.000000
## 5110	Teddy Bridgewater	qb	134.6658750	-13.2716250	0.000000
## 5210	Carson Palmer	qb	130.9230000	-17.0145000	0.000000
## 5310	Sam Bradford	qb	130.6485000	-17.2890000	0.000000
## 5410	Alex Smith	qb	129.1972500	-18.7402500	0.000000
## 5510	Andy Dalton	qb	124.4092500	-23.5282500	0.000000
## 5610	Marcus Mariota	qb	123.7466250	-24.1908750	0.000000
## 5710	Tom Brady	qb	121.4865000	-26.4510000	0.000000
## 5810	Jameis Winston	qb	121.0443750	-26.8931250	0.000000
## 5910	Blake Bortles	qb	116.9392500	-30.9982500	0.000000
## 6010	Derek Carr	qb	115.3012500	-32.6362500	0.000000
## 6110	Nick Foles	qb	115.1550000	-32.7825000	0.000000
## 6210	Robert Griffin III	qb	115.1448750	-32.7926250	0.000000
## 6310	Josh McCown	qb	101.7937500	-46.1437500	0.000000
## 1110	Chandler Catanzaro	k	83.3625000	-0.7875000	0.000000
## 122	Dan Carpenter	k	82.6312500	-1.5187500	0.000000
## 151	Blair Walsh	k	79.6500000	-4.5000000	0.000000
## 1910	Phil Dawson	k	79.3125000	-4.8375000	0.000000
## 6410	Brian Hoyer	qb	79.2540000	-68.6835000	0.000000
## 1610	Graham Gano	k	79.0875000	-5.0625000	0.000000
## 1710	Caleb Sturgis	k	78.9750000	-5.1750000	0.000000
## 657	Ryan Fitzpatrick	qb	78.9198750	-69.0176250	0.000000
## 2010	Nick Novak	k	78.3562500	-5.7937500	0.000000
## 1810	Cairo Santos	k	78.1875000	-5.9625000	0.000000
## 2210	Randy Bullock	k	78.1312500	-6.0187500	0.000000
## 2110	Nick Folk	k	78.0750000	-6.0750000	0.000000
## 3010	Travis Coons	k	78.0000000	-6.1500000	0.000000
## 2310	Greg Zuerlein	k	77.7375000	-6.4125000	0.000000
## 321	Carey Spear	k	75.5625000	-8.5875000	0.000000
## 2410	Mike Nugent	k	75.5437500	-8.6062500	0.000000
## 2510	Matt Prater	k	74.5875000	-9.5625000	0.000000
## 2710	Sebastian Janikowski	k	73.6875000	-10.4625000	0.000000
## 2610	Kai Forbath	k	73.2375000	-10.9125000	0.000000
## 2810	Robbie Gould	k	72.2250000	-11.9250000	0.000000
## 140	Andre Ellington	rb	71.9325000	-3.2146875	0.000000
## 2910	Patrick Murray	k	70.2000000	-13.9500000	0.000000
## 317	Ryan Succop	k	69.6375000	-14.5125000	0.000000
## 146	Joiique Bell	rb	69.1818750	-5.9653125	0.000000
## 148	Todd Gurley	rb	69.1565625	-5.9906250	0.000000
## 149	Christopher Ivory	rb	69.0975000	-6.0496875	0.000000
## 147	Arian Foster	rb	68.1300000	-7.0171875	0.000000
## 331	Josh Scobee	k	67.5000000	-16.6500000	0.000000

## 150	Tevin Coleman	rb	66.3721875	-8.7750000	0.000000
## 152	Giovani Bernard	rb	60.2268750	-14.9203125	0.000000
## 153	Ameer Abdullah	rb	59.9512500	-15.1959375	0.000000
## 154	Devonta Freeman	rb	59.5743750	-15.5728125	0.000000
## 156	Doug Martin	rb	59.3775000	-15.7696875	0.000000
## 155	C.J. Spiller	rb	58.8781250	-16.2690625	0.000000
## 157	Ryan Mathews	rb	56.6718750	-18.4753125	0.000000
## 661	Matt Cassel	qb	54.8550000	-93.0825000	0.000000
## 159	Bishop Sankey	rb	51.7640625	-23.3831250	0.000000
## 160	Alfred Blue	rb	50.7600000	-24.3871875	0.000000
## 671	Tyrod Taylor	qb	50.6126250	-97.3248750	0.000000
## 158	Shane Vereen	rb	50.0281250	-25.1190625	0.000000
## 161	Tre Mason	rb	48.8925000	-26.2546875	0.000000
## 681	Geno Smith	qb	47.8248750	-100.1126250	0.000000
## 165	Darren McFadden	rb	42.2296875	-32.9175000	0.000000
## 173	Andre Williams	rb	40.9812500	-34.1659375	0.000000
## 478	Charles Johnson	wr	40.8965625	-0.2025000	0.000000
## 476	Allen Robinson	wr	40.8825000	-0.2165625	0.000000
## 480	Brandon LaFell	wr	40.7784375	-0.3206250	0.000000
## 483	John Brown	wr	40.4381250	-0.6609375	0.000000
## 481	Torrey Smith	wr	40.1343750	-0.9646875	0.000000
## 475	Anquan Boldin	wr	40.0471875	-1.0518750	0.000000
## 489	Terrance Williams	wr	39.7715625	-1.3275000	0.000000
## 168	Duke Johnson	rb	39.6937500	-35.4534375	0.000000
## 166	Knile Davis	rb	39.6590625	-35.4881250	0.000000
## 162	Charles Sims	rb	39.6309375	-35.5162500	0.000000
## 172	Jonas Gray	rb	39.2118750	-35.9353125	0.000000
## 167	David Cobb	rb	39.1387500	-36.0084375	0.000000
## 482	Larry Fitzgerald	wr	39.0684375	-2.0306250	0.000000
## 486	Devin Funchess	wr	38.3090625	-2.7900000	0.000000
## 169	Lorenzo Taliaferro	rb	37.6678125	-37.4793750	0.000000
## 164	Reggie Bush	rb	37.3809375	-37.7662500	0.000000
## 492	Breshad Perriman	wr	37.1559375	-3.9431250	0.000000
## 493	Rueben Randle	wr	37.0875000	-4.0115625	0.000000
## 490	Malcom Floyd	wr	37.0828125	-4.0162500	0.000000
## 491	Doug Baldwin	wr	36.9731250	-4.1259375	0.000000
## 488	Kendall Wright	wr	36.7228125	-4.3762500	0.000000
## 487	Pierre Garcon	wr	36.3234375	-4.7756250	0.000000
## 495	Dwayne Bowe	wr	35.7625000	-5.3365625	0.000000
## 163	Danny Woodhead	rb	35.0662500	-40.0809375	0.000000
## 494	Eddie Royal	wr	33.9384375	-7.1606250	0.000000
## 175	Ronnie Hillman	rb	33.7612500	-41.3859375	0.000000
## 174	Denard Robinson	rb	33.7359375	-41.4112500	0.000000
## 496	Brian Quick	wr	33.6037500	-7.4953125	0.000000
## 691	Ryan Mallett	qb	33.3573750	-114.5801250	0.000000
## 499	Percy Harvin	wr	32.7459375	-8.3531250	0.000000
## 171	Roy Helu	rb	32.7234375	-42.4237500	0.000000
## 184	Terrance West	rb	32.6750000	-42.4721875	0.000000
## 497	Kenny Stills	wr	32.6306250	-8.4684375	0.000000
## 325	Delanie Walker	te	32.0568750	-0.0056250	0.000000
## 328	Kyle Rudolph	te	31.8121875	-0.2503125	0.000000
## 177	David Johnson	rb	31.7165625	-43.4306250	0.000000
## 330	Owen Daniels	te	31.5028125	-0.5596875	0.000000
## 332	Heath Miller	te	31.4218750	-0.6406250	0.000000

## 498	Kenny Britt	wr	31.2018750	-9.8971875	0.000000
## 170	Darren Sproles	rb	31.0921875	-44.0550000	0.000000
## 181	Ray Rice	rb	30.9656250	-44.1815625	0.000000
## 501	Steve Johnson	wr	30.4284375	-10.6706250	0.000000
## 178	Matt Jones	rb	30.3834375	-44.7637500	0.000000
## 337	Larry Donnell	te	30.3718750	-1.6906250	0.000000
## 701	Jimmy Garoppolo	qb	30.2647500	-117.6727500	0.000000
## 179	Fred Jackson	rb	30.2062500	-44.9409375	0.000000
## 502	Devante Parker	wr	30.0853125	-11.0137500	0.000000
## 180	Daniel Herron	rb	30.0290625	-45.1181250	0.000000
## 500	Michael Crabtree	wr	29.8434375	-11.2556250	0.000000
## 176	Lance Dunbar	rb	29.8293750	-45.3178125	0.000000
## 187	DeAngelo Williams	rb	29.6125000	-45.5346875	0.000000
## 182	James Starks	rb	29.5340625	-45.6131250	0.000000
## 508	Brandon Coleman	wr	29.4312500	-11.6678125	0.000000
## 503	Allen Hurns	wr	29.0700000	-12.0290625	0.000000
## 504	Marvin Jones	wr	28.9603125	-12.1387500	0.000000
## 506	Markus Wheaton	wr	28.5562500	-12.5428125	0.000000
## 505	Cody Latimer	wr	28.1587500	-12.9403125	0.000000
## 333	Jordan Reed	te	28.1306250	-3.9318750	0.000000
## 183	Jerick McKinnon	rb	28.0968750	-47.0503125	0.000000
## 507	Andrew Hawkins	wr	27.9937500	-13.1053125	0.000000
## 338	Vernon Davis	te	27.9000000	-4.1625000	0.000000
## 342	Josh Hill	te	27.7937500	-4.2687500	0.000000
## 334	Tyler Eifert	te	27.6018750	-4.4606250	0.000000
## 185	Damien Williams	rb	27.2728125	-47.8743750	0.000000
## 336	Charles Clay	te	27.0112500	-5.0512500	0.000000
## 340	Richard Rodgers	te	26.8115625	-5.2509375	0.000000
## 335	Austin Seferian-Jenkins	te	26.5725000	-5.4900000	0.000000
## 339	Jared Cook	te	26.5331250	-5.5293750	0.000000
## 518	Tavon Austin	wr	26.2181250	-14.8809375	0.000000
## 511	Brian Hartline	wr	25.8312500	-15.2678125	0.000000
## 509	Jermaine Kearse	wr	25.7934375	-15.3056250	0.000000
## 510	Greg Jennings	wr	25.3912500	-15.7078125	0.000000
## 191	Chris Johnson	rb	25.0003125	-50.1468750	0.000000
## 186	Bilal Powell	rb	24.9440625	-50.2031250	0.000000
## 190	Robert Turbin	rb	24.7893750	-50.3578125	0.000000
## 515	Jeff Janis	wr	24.5868750	-16.5121875	0.000000
## 194	Branden Oliver	rb	24.4321875	-50.7150000	0.000000
## 522	Dexter McCluster	wr	24.2437500	-16.8553125	0.000000
## 344	Benjamin Watson	te	24.0250000	-8.0375000	0.000000
## 514	Cole Beasley	wr	24.0103125	-17.0887500	0.000000
## 513	Philly Brown	wr	23.9428125	-17.1562500	0.000000
## 516	Jerricho Cotchery	wr	23.6503125	-17.4487500	0.000000
## 512	Nate Washington	wr	23.2509375	-17.8481250	0.000000
## 341	Eric Ebron	te	23.2509375	-8.8115625	0.000000
## 517	Robert Woods	wr	23.2171875	-17.8818750	0.000000
## 188	James White	rb	23.1581250	-51.9890625	0.000000
## 196	Javorius Allen	rb	22.4943750	-52.6528125	0.000000
## 519	Phillip Dorsett	wr	22.3846875	-18.7143750	0.000000
## 189	Benny Cunningham	rb	22.3481250	-52.7990625	0.000000
## 521	Leonard Hankerson	wr	22.1962500	-18.9028125	0.000000
## 343	Ladarius Green	te	21.9712500	-10.0912500	0.000000
## 197	Stevan Ridley	rb	21.9318750	-53.2153125	0.000000

## 195	Mike Tolbert	rb	21.7687500	-53.3784375	0.000000
## 523	Mohamed Sanu	wr	21.6337500	-19.4653125	0.000000
## 345	Mychal Rivera	te	21.4621875	-10.6003125	0.000000
## 347	Maxx Williams	te	21.1218750	-10.9406250	0.000000
## 198	Montee Ball	rb	21.1134375	-54.0337500	0.000000
## 524	Donte Moncrief	wr	21.1106250	-19.9884375	0.000000
## 346	Jace Amaro	te	20.8856250	-11.1768750	0.000000
## 526	Tyler Lockett	wr	20.3568750	-20.7421875	0.000000
## 520	Cecil Shorts	wr	20.3203125	-20.7787500	0.000000
## 193	Dexter McCluster	rb	20.2809375	-54.8662500	0.000000
## 192	Theo Riddick	rb	20.2584375	-54.8887500	0.000000
## 711	Johnny Manziel	qb	20.1150000	-127.8225000	0.000000
## 200	Khiry Robinson	rb	19.8968750	-55.2503125	0.000000
## 199	Cameron Artis-Payne	rb	19.6509375	-55.4962500	0.000000
## 525	Marqise Lee	wr	19.4231250	-21.6759375	0.000000
## 348	Jacob Tamme	te	19.1334375	-12.9290625	0.000000
## 528	Jarius Wright	wr	18.9675000	-22.1315625	0.000000
## 532	Ty Montgomery	wr	18.7228125	-22.3762500	0.000000
## 535	Nick Toon	wr	18.6093750	-22.4896875	0.000000
## 531	Dorial Green-Beckham	wr	18.5034375	-22.5956250	0.000000
## 349	Brent Celek	te	17.9887500	-14.0737500	0.000000
## 549	De'Anthony Thomas	wr	17.8818750	-23.2171875	0.000000
## 529	Reggie Wayne	wr	17.8790625	-23.2200000	0.000000
## 527	Mike Brown	wr	17.8593750	-23.2396875	0.000000
## 541	Cordarrelle Patterson	wr	17.8593750	-23.2396875	0.000000
## 530	Harry Douglas	wr	17.8312500	-23.2678125	0.000000
## 533	Rod Streater	wr	17.7834375	-23.3156250	0.000000
## 537	Devin Smith	wr	17.5387500	-23.5603125	0.000000
## 536	Riley Cooper	wr	17.4684375	-23.6306250	0.000000
## 721	Kirk Cousins	qb	17.4487500	-130.4887500	0.000000
## 353	Lance Kendricks	te	17.2040625	-14.8584375	0.000000
## 203	Josh Robinson	rb	17.0662500	-58.0809375	0.000000
## 352	Rob Housler	te	17.0187500	-15.0437500	0.000000
## 538	Jeremy Kerley	wr	16.7315625	-24.3675000	0.000000
## 534	Andre Roberts	wr	16.7146875	-24.3843750	0.000000
## 539	Andre Holmes	wr	16.6387500	-24.4603125	0.000000
## 350	Virgil Green	te	16.5628125	-15.4996875	0.000000
## 545	Kamar Aiken	wr	16.5600000	-24.5390625	0.000000
## 357	Gavin Escobar	te	16.5515625	-15.5109375	0.000000
## 356	Jeff Cumberland	te	16.5093750	-15.5531250	0.000000
## 540	Justin Hunter	wr	16.4587500	-24.6403125	0.000000
## 201	Jacquizz Rodgers	rb	16.4446875	-58.7025000	0.000000
## 551	Taylor Gabriel	wr	16.3687500	-24.7303125	0.000000
## 542	Chris Conley	wr	16.3321875	-24.7668750	0.000000
## 354	Andrew Quarless	te	16.2168750	-15.8456250	0.000000
## 544	Danny Amendola	wr	16.1634375	-24.9356250	0.000000
## 355	Crockett Gillmore	te	16.0790625	-15.9834375	0.000000
## 208	Jay Ajayi	rb	16.0340625	-59.1131250	0.000000
## 209	Chris Polk	rb	16.0256250	-59.1215625	0.000000
## 202	Toby Gerhart	rb	15.9778125	-59.1693750	0.000000
## 207	Brandon Bolden	rb	15.8821875	-59.2650000	0.000000
## 731	Mark Sanchez	qb	15.8591250	-132.0783750	0.000000
## 543	Jaelen Strong	wr	15.4715625	-25.6275000	0.000000
## 546	Albert Wilson	wr	15.4321875	-25.6668750	0.000000

## 351	Garrett Graham	te	15.4209375	-16.6415625	0.000000
## 205	Jonathan Grimes	rb	15.4209375	-59.7262500	0.000000
## 547	Kevin White	wr	15.2606250	-25.8384375	0.000000
## 206	Bobby Rainey	rb	15.0862500	-60.0609375	0.000000
## 211	Fozzy Whittaker	rb	14.8078125	-60.3393750	0.000000
## 358	Darren Fells	te	14.5968750	-17.4656250	0.000000
## 550	Stedman Bailey	wr	14.5940625	-26.5050000	0.000000
## 548	Louis Murphy	wr	14.4196875	-26.6793750	0.000000
## 552	Marquess Wilson	wr	14.4028125	-26.6962500	0.000000
## 204	De'Anthony Thomas	rb	13.7334375	-61.4137500	0.000000
## 212	Darrel Young	rb	13.2637500	-61.8834375	0.000000
## 359	Scott Chandler	te	13.1568750	-18.9056250	0.000000
## 218	Austin Johnson	rb	13.0937500	-62.0534375	0.000000
## 214	Shonn Greene	rb	12.7575000	-62.3896875	0.000000
## 553	Hakeem Nicks	wr	12.6675000	-28.4315625	0.000000
## 554	Justin Hardy	wr	12.5887500	-28.5103125	0.000000
## 213	Antone Smith	rb	12.4425000	-62.7046875	0.000000
## 210	Marcel Reece	rb	12.3693750	-62.7778125	0.000000
## 360	Dion Sims	te	12.3637500	-19.6987500	0.000000
## 555	Marlon Brown	wr	12.2400000	-28.8590625	0.000000
## 362	Clive Walford	te	12.1359375	-19.9265625	0.000000
## 367	Daniel Fells	te	12.0625000	-20.0000000	0.000000
## 361	Derek Carrier	te	11.8265625	-20.2359375	0.000000
## 363	Jermaine Gresham	te	11.7956250	-20.2668750	0.000000
## 223	Jeremy Langford	rb	11.7506250	-63.3965625	0.000000
## 220	Trent Richardson	rb	11.6859375	-63.4612500	0.000000
## 364	Marcedes Lewis	te	11.6831250	-20.3793750	0.000000
## 556	Ted Ginn	wr	11.6128125	-29.4862500	0.000000
## 219	Kendall Hunter	rb	11.4525000	-63.6946875	0.000000
## 365	Luke Willson	te	11.3878125	-20.6746875	0.000000
## 222	Karlos Williams	rb	11.3146875	-63.8325000	0.000000
## 221	Ka'Deem Carey	rb	11.1065625	-64.0406250	0.000000
## 370	Matt Spaeth	te	11.0937500	-20.9687500	0.000000
## 217	Matt Asiata	rb	11.0362500	-64.1109375	0.000000
## 216	Zach Line	rb	10.9406250	-64.2065625	0.000000
## 366	Ryan Hewitt	te	10.8281250	-21.2343750	0.000000
## 557	Quinton Patton	wr	10.1868750	-30.9121875	0.000000
## 374	James Casey	te	10.1812500	-21.8812500	0.000000
## 368	James O'Shaughnessy	te	10.0715625	-21.9909375	0.000000
## 224	Joe Banyard	rb	9.9787500	-65.1684375	0.000000
## 369	Ed Dickson	te	9.8775000	-22.1850000	0.000000
## 215	Bruce Miller	rb	9.8437500	-65.3034375	0.000000
## 558	Corey Fuller	wr	9.7312500	-31.3678125	0.000000
## 231	Zac Stacy	rb	9.7228125	-65.4243750	0.000000
## 741	E.J. Manuel	qb	9.7188750	-138.2186250	0.000000
## 371	Tony Moeaki	te	9.6975000	-22.3650000	0.000000
## 230	Christine Michael	rb	9.6693750	-65.4778125	0.000000
## 559	Devin Hester	wr	9.4753125	-31.6237500	0.000000
## 227	John Kuhn	rb	9.4246875	-65.7225000	0.000000
## 372	Anthony Fasano	te	9.1996875	-22.8628125	0.000000
## 226	Dri Archer	rb	9.1750000	-65.9721875	0.000000
## 225	Derrick Coleman	rb	8.9381250	-66.2090625	0.000000
## 564	Bruce Ellington	wr	8.8143750	-32.2846875	0.000000
## 228	Stepfan Taylor	rb	8.7018750	-66.4453125	0.000000

## 373	C.J. Fiedorowicz	te	8.6765625	-23.3859375	0.000000
## 561	Chris Matthews	wr	8.6653125	-32.4337500	0.000000
## 560	Jason Avant	wr	8.5162500	-32.5828125	0.000000
## 563	Chris Hogan	wr	8.2209375	-32.8781250	0.000000
## 229	Ryan Williams	rb	8.2125000	-66.9346875	0.000000
## 234	Juwan Thompson	rb	8.1703125	-66.9768750	0.000000
## 562	Jaron Brown	wr	8.1562500	-32.9428125	0.000000
## 378	Gary Barnidge	te	7.7406250	-24.3218750	0.000000
## 751	Kellen Moore	qb	7.6848750	-140.2526250	0.000000
## 241	Tyler Clutts	rb	7.4981250	-67.6490625	0.000000
## 375	Brandon Myers	te	7.4615625	-24.6009375	0.000000
## 376	Levine Toilolo	te	7.4390625	-24.6234375	0.000000
## 568	Ricardo Lockette	wr	7.3462500	-33.7528125	0.000000
## 565	Jeremy Ross	wr	7.2140625	-33.8850000	0.000000
## 237	Storm Johnson	rb	7.1268750	-68.0203125	0.000000
## 567	Josh Huff	wr	7.0565625	-34.0425000	0.000000
## 571	Sammie Coates	wr	7.0562500	-34.0428125	0.000000
## 377	Troy Niklas	te	6.9834375	-25.0790625	0.000000
## 383	Joseph Fauria	te	6.9581250	-25.1043750	0.000000
## 566	Jamison Crowder	wr	6.9131250	-34.1859375	0.000000
## 236	Jerome Felton	rb	6.9103125	-68.2368750	0.000000
## 238	Vick Ballard	rb	6.8709375	-68.2762500	0.000000
## 233	Anthony Sherman	rb	6.8568750	-68.2903125	0.000000
## 381	Jim Dray	te	6.6937500	-25.3687500	0.000000
## 239	Jalston Fowler	rb	6.6543750	-68.4928125	0.000000
## 761	B.J. Daniels	qb	6.6420000	-141.2955000	0.000000
## 243	Robert Hughes	rb	6.5615625	-68.5856250	0.000000
## 573	Michael Campanaro	wr	6.5306250	-34.5684375	0.000000
## 576	Travis Benjamin	wr	6.4812500	-34.6178125	0.000000
## 382	Brandon Pettigrew	te	6.4800000	-25.5825000	0.000000
## 570	Jerome Simpson	wr	6.4546875	-34.6443750	0.000000
## 380	Tyler Kroft	te	6.4546875	-25.6078125	0.000000
## 245	Anthony Dixon	rb	6.4490625	-68.6981250	0.000000
## 232	Patrick DiMarco	rb	6.3984375	-68.7487500	0.000000
## 575	Rishard Matthews	wr	6.3225000	-34.7765625	0.000000
## 572	Kenny Bell	wr	6.3084375	-34.7906250	0.000000
## 577	Preston Parker	wr	6.2437500	-34.8553125	0.000000
## 582	Seantavius Jones	wr	6.1875000	-34.9115625	0.000000
## 379	Dante Rosario	te	6.1818750	-25.8806250	0.000000
## 569	Brandon Tate	wr	5.9512500	-35.1478125	0.000000
## 244	Malcolm Johnson	rb	5.9500000	-69.1971875	0.000000
## 240	James Develin	rb	5.9484375	-69.1987500	0.000000
## 574	Kenbrell Thompson	wr	5.9006250	-35.1984375	0.000000
## 255	Josh Harris	rb	5.8468750	-69.3003125	0.000000
## 579	Dontrelle Inman	wr	5.8162500	-35.2828125	0.000000
## 771	Drew Stanton	qb	5.7746250	-142.1628750	0.000000
## 384	Craig Stevens	te	5.7600000	-26.3025000	0.000000
## 242	Tommy Bohanon	rb	5.6896875	-69.4575000	0.000000
## 581	Jarrett Boykin	wr	5.6728125	-35.4262500	0.000000
## 781	Derek Anderson	qb	5.6205000	-142.3170000	0.000000
## 253	Henry Hynoski	rb	5.5968750	-69.5503125	0.000000
## 248	Michael Burton	rb	5.4534375	-69.6937500	0.000000
## 578	Paul Richardson	wr	5.4140625	-35.6850000	0.000000
## 249	Erik Lorig	rb	5.4125000	-69.7346875	0.000000

## 791	Brandon Weeden	qb	5.4112500	-142.5262500	0.000000
## 386	Lee Smith	te	5.3971875	-26.6653125	0.000000
## 583	Miles Austin	wr	5.2706250	-35.8284375	0.000000
## 580	Rashad Greene	wr	5.2368750	-35.8621875	0.000000
## 254	Daryl Richardson	rb	5.1525000	-69.9946875	0.000000
## 385	MarQueis Gray	te	5.0625000	-27.0000000	0.000000
## 388	Dennis Pitta	te	5.0315625	-27.0309375	0.000000
## 588	Joseph Morgan	wr	4.9437500	-36.1553125	0.000000
## 801	Jimmy Clausen	qb	4.9398750	-142.9976250	0.000000
## 811	Zach Mettenberger	qb	4.9230000	-143.0145000	0.000000
## 252	Chris Thompson	rb	4.9134375	-70.2337500	0.000000
## 387	Rhett Ellison	te	4.8684375	-27.1940625	0.000000
## 587	Corey Washington	wr	4.8375000	-36.2615625	0.000000
## 247	Travaris Cadet	rb	4.7981250	-70.3490625	0.000000
## 390	Chris Gragg	te	4.7756250	-27.2868750	0.000000
## 591	Terrelle Pryor	wr	4.7687500	-36.3303125	0.000000
## 391	MyCole Pruitt	te	4.6940625	-27.3684375	0.000000
## 251	Ryan Hewitt	rb	4.6687500	-70.4784375	0.000000
## 250	Jay Prosch	rb	4.5871875	-70.5600000	0.000000
## 246	James Casey	rb	4.4578125	-70.6893750	0.000000
## 821	Austin Davis	qb	4.4257500	-143.5117500	0.000000
## 235	Kyle Juszczyk	rb	4.4128125	-70.7343750	0.000000
## 871	Bruce Gradkowski	qb	4.3912500	-143.5462500	0.000000
## 261	Jeremy Stewart	rb	4.3565625	-70.7906250	0.000000
## 258	Fitzgerald Toussaint	rb	4.3368750	-70.8103125	0.000000
## 259	Marion Grice	rb	4.3171875	-70.8300000	0.000000
## 584	Devin Street	wr	4.2834375	-36.8156250	0.000000
## 831	Chase Daniel	qb	4.2671250	-143.6703750	0.000000
## 851	Mike Glennon	qb	4.2435000	-143.6940000	0.000000
## 585	Jacoby Jones	wr	4.2159375	-36.8831250	0.000000
## 841	Colt McCoy	qb	4.1827500	-143.7547500	0.000000
## 392	Demetrius Harris	te	4.1343750	-27.9281250	0.000000
## 590	T.J. Graham	wr	4.0809375	-37.0181250	0.000000
## 586	Andre Caldwell	wr	4.0753125	-37.0237500	0.000000
## 394	Nic Jacobs	te	4.0668750	-27.9956250	0.000000
## 264	Charcandrick West	rb	4.0612500	-71.0859375	0.000000
## 257	Taiwan Jones	rb	3.9965625	-71.1506250	0.000000
## 861	Blaine Gabbert	qb	3.9903750	-143.9471250	0.000000
## 393	Cameron Brate	te	3.9740625	-28.0884375	0.000000
## 395	Jack Doyle	te	3.9262500	-28.1362500	0.000000
## 881	Shaun Hill	qb	3.8643750	-144.0731250	0.000000
## 260	Jorvorskie Lane	rb	3.7968750	-71.3503125	0.000000
## 400	D.J. Williams	te	3.7265625	-28.3359375	0.000000
## 270	Tim Hightower	rb	3.7156250	-71.4315625	0.000000
## 399	Cooper Helfet	te	3.6900000	-28.3725000	0.000000
## 891	Chad Henne	qb	3.6585000	-144.2790000	0.000000
## 589	Walt Powell	wr	3.5943750	-37.5046875	0.000000
## 256	Will Johnson	rb	3.5687500	-71.5784375	0.000000
## 268	LaMichael James	rb	3.5578125	-71.5893750	0.000000
## 267	Jordan Todman	rb	3.5353125	-71.6118750	0.000000
## 396	Gerell Robinson	te	3.4115625	-28.6509375	0.000000
## 389	Vance McDonald	te	3.4031250	-28.6593750	0.000000
## 404	Brandon Bostick	te	3.4031250	-28.6593750	0.000000
## 593	Matt Slater	wr	3.3356250	-37.7634375	0.000000

## 594	Jeff Maehl	wr	3.3328125	-37.7662500	0.000000
## 266	George Winn	rb	3.3300000	-71.8171875	0.000000
## 265	DuJuan Harris	rb	3.3159375	-71.8312500	0.000000
## 592	Saalim Hakim	wr	3.3103125	-37.7887500	0.000000
## 271	Zurlon Tipton	rb	3.3103125	-71.8368750	0.000000
## 263	Rex Burkhead	rb	3.2793750	-71.8678125	0.000000
## 398	Blake Bell	te	3.2765625	-28.7859375	0.000000
## 397	Ryan Griffin	te	3.2568750	-28.8056250	0.000000
## 272	Zach Zenner	rb	3.2034375	-71.9437500	0.000000
## 595	Austin Pettis	wr	3.1500000	-37.9490625	0.000000
## 597	Ryan Grant	wr	3.0656250	-38.0334375	0.000000
## 596	Rashad Ross	wr	3.0290625	-38.0700000	0.000000
## 262	Cory Harkey	rb	3.0093750	-72.1378125	0.000000
## 598	Marlon Moore	wr	2.9843750	-38.1146875	0.000000
## 269	Trey Watts	rb	2.9643750	-72.1828125	0.000000
## 603	Kevin Dorsey	wr	2.9109375	-38.1881250	0.000000
## 402	Ryan Taylor	te	2.8912500	-29.1712500	0.000000
## 600	Ryan Spadola	wr	2.8293750	-38.2696875	0.000000
## 405	Trey Burton	te	2.8125000	-29.2500000	0.000000
## 403	John Phillips	te	2.7956250	-29.2668750	0.000000
## 401	David Johnson	te	2.7871875	-29.2753125	0.000000
## 610	Jared Abbrederis	wr	2.7506250	-38.3484375	0.000000
## 613	James Jones	wr	2.7250000	-38.3740625	0.000000
## 406	Phillip Supernaw	te	2.7196875	-29.3428125	0.000000
## 602	Deonte Thompson	wr	2.6971875	-38.4018750	0.000000
## 611	Darrius Heyward-Bey	wr	2.6906250	-38.4084375	0.000000
## 599	Tandon Doss	wr	2.6887500	-38.4103125	0.000000
## 901	Scott Tolzien	qb	2.6775000	-145.2600000	0.000000
## 278	Ray Agnew	rb	2.6465625	-72.5006250	0.000000
## 274	Donald Brown	rb	2.6296875	-72.5175000	0.000000
## 282	Marcus Murphy	rb	2.6187500	-72.5284375	0.000000
## 604	Eric Weems	wr	2.6156250	-38.4834375	0.000000
## 277	Orleans Darkwa	rb	2.6156250	-72.5315625	0.000000
## 617	Duron Carter	wr	2.6015625	-38.4975000	0.000000
## 601	Quincy Enunwa	wr	2.5790625	-38.5200000	0.000000
## 279	Jerome Smith	rb	2.5368750	-72.6103125	0.000000
## 608	J.J. Nelson	wr	2.5200000	-38.5790625	0.000000
## 408	Garrett Celek	te	2.5115625	-29.5509375	0.000000
## 276	Mike Davis	rb	2.4862500	-72.6609375	0.000000
## 618	Josh Morgan	wr	2.4468750	-38.6521875	0.000000
## 605	Stefon Diggs	wr	2.4215625	-38.6775000	0.000000
## 284	Antonio Andrews	rb	2.3821875	-72.7650000	0.000000
## 609	DeVier Posey	wr	2.3737500	-38.7253125	0.000000
## 606	Marquise Goodwin	wr	2.3681250	-38.7309375	0.000000
## 275	Kerwynn Williams	rb	2.3681250	-72.7790625	0.000000
## 409	Chase Ford	te	2.3653125	-29.6971875	0.000000
## 287	Darrin Reaves	rb	2.3512500	-72.7959375	0.000000
## 911	Christian Ponder	qb	2.3400000	-145.5975000	0.000000
## 921	Ryan Nassib	qb	2.3375000	-145.6000000	0.000000
## 290	John Crockett	rb	2.3343750	-72.8128125	0.000000
## 273	Collin Mooney	rb	2.3175000	-72.8296875	0.000000
## 413	Michael Hoomanawanui	te	2.3175000	-29.7450000	0.000000
## 612	Robert Herron	wr	2.3146875	-38.7843750	0.000000
## 621	Darren Waller	wr	2.3062500	-38.7928125	0.000000

## 623	Aaron Dobson	wr	2.2893750	-38.8096875	0.000000
## 614	Greg Salas	wr	2.2696875	-38.8293750	0.000000
## 410	Sean McGrath	te	2.2668750	-29.7956250	0.000000
## 411	Je'Ron Hamm	te	2.2640625	-29.7984375	0.000000
## 625	Vince Mayle	wr	2.2406250	-38.8584375	0.000000
## 607	Chris Givens	wr	2.2387500	-38.8603125	0.000000
## 407	Tim Wright	te	2.2190625	-29.8434375	0.000000
## 416	Adrien Robinson	te	2.1937500	-29.8687500	0.000000
## 288	Kenny Hilliard	rb	2.1909375	-72.9562500	0.000000
## 620	Chris Owusu	wr	2.1768750	-38.9221875	0.000000
## 283	Ronnie Brown	rb	2.1768750	-72.9703125	0.000000
## 616	Lance Moore	wr	2.1656250	-38.9334375	0.000000
## 615	Brice Butler	wr	2.1375000	-38.9615625	0.000000
## 289	Chase Reynolds	rb	2.1178125	-73.0293750	0.000000
## 280	Jamize Olawale	rb	2.0953125	-73.0518750	0.000000
## 412	Brian Leonhardt	te	2.0700000	-29.9925000	0.000000
## 931	Luke McCown	qb	2.0575000	-145.8800000	0.000000
## 626	Keshawn Martin	wr	2.0250000	-39.0740625	0.000000
## 291	Mike James	rb	2.0250000	-73.1221875	0.000000
## 281	John Conner	rb	2.0109375	-73.1362500	0.000000
## 414	Mickey Shuler	te	2.0053125	-30.0571875	0.000000
## 624	Adam Thielen	wr	1.9715625	-39.1275000	0.000000
## 622	Isaiah Burse	wr	1.9631250	-39.1359375	0.000000
## 628	Josh Boyce	wr	1.9603125	-39.1387500	0.000000
## 285	Marcus Thigpen	rb	1.9068750	-73.2403125	0.000000
## 286	Bryce Brown	rb	1.8365625	-73.3106250	0.000000
## 631	Neal Sterling	wr	1.8225000	-39.2765625	0.000000
## 632	Keith Mumphery	wr	1.8028125	-39.2962500	0.000000
## 941	Matt Hasselbeck	qb	1.7651250	-146.1723750	0.000000
## 415	Zach Miller	te	1.7521875	-30.3103125	0.000000
## 629	Brenton Bersin	wr	1.7381250	-39.3609375	0.000000
## 417	J.J. Watt	te	1.7353125	-30.3271875	0.000000
## 418	Jordan Thompson	te	1.7325000	-30.3300000	0.000000
## 619	Junior Hemingway	wr	1.7240625	-39.3750000	0.000000
## 642	Alan Bonner	wr	1.6875000	-39.4115625	0.000000
## 294	Kiero Small	rb	1.6790625	-73.4681250	0.000000
## 627	Damaris Johnson	wr	1.6706250	-39.4284375	0.000000
## 423	Jesse James	te	1.6500000	-30.4125000	0.000000
## 419	Clay Harbor	te	1.6481250	-30.4143750	0.000000
## 630	Vincent Brown	wr	1.6396875	-39.4593750	0.000000
## 420	Kellen Davis	te	1.6396875	-30.4228125	0.000000
## 422	Orson Charles	te	1.6312500	-30.4312500	0.000000
## 292	Edwin Baker	rb	1.6250000	-73.5221875	0.000000
## 637	Kevin Norwood	wr	1.6200000	-39.4790625	0.000000
## 296	Senorise Perry	rb	1.6143750	-73.5328125	0.000000
## 635	Matt Hazel	wr	1.6087500	-39.4903125	0.000000
## 640	Seyi Ajirotutu	wr	1.5862500	-39.5128125	0.000000
## 951	Kellen Clemens	qb	1.5693750	-146.3681250	0.000000
## 638	Josh Bellamy	wr	1.5553125	-39.5437500	0.000000
## 426	Luke Stocker	te	1.5300000	-30.5325000	0.000000
## 293	Gus Johnson	rb	1.5271875	-73.6200000	0.000000
## 641	Marcus Easley	wr	1.5243750	-39.5746875	0.000000
## 428	Alex Smith	te	1.4656250	-30.5968750	0.000000
## 424	Brandon Williams	te	1.4428125	-30.6196875	0.000000

## 425	Anthony McCoy	te	1.4343750	-30.6281250	0.000000
## 961	Brock Osweiler	qb	1.4310000	-146.5065000	0.000000
## 636	Dwayne Harris	wr	1.4156250	-39.6834375	0.000000
## 644	Jalen Saunders	wr	1.4125000	-39.6865625	0.000000
## 634	Rodney Smith	wr	1.4006250	-39.6984375	0.000000
## 633	Kris Durham	wr	1.3921875	-39.7068750	0.000000
## 647	Myles White	wr	1.3781250	-39.7209375	0.000000
## 421	James Hanna	te	1.3668750	-30.6956250	0.000000
## 427	Cory Harkey	te	1.3500000	-30.7125000	0.000000
## 650	Lucky Whitehead	wr	1.3359375	-39.7631250	0.000000
## 295	Cedric Peerman	rb	1.3190625	-73.8281250	0.000000
## 97	Matt Schaub	qb	1.3016250	-146.6358750	0.000000
## 430	Ifeanyi Momah	te	1.2993750	-30.7631250	0.000000
## 645	Frankie Hammond	wr	1.2937500	-39.8053125	0.000000
## 298	Bernard Pierce	rb	1.2768750	-73.8703125	0.000000
## 643	Ryan Broyles	wr	1.2740625	-39.8250000	0.000000
## 639	Marc Mariani	wr	1.2543750	-39.8446875	0.000000
## 429	Kennard Backman	te	1.2431250	-30.8193750	0.000000
## 299	Thomas Rawls	rb	1.2150000	-73.9321875	0.000000
## 431	Bear Pascoe	te	1.2009375	-30.8615625	0.000000
## 646	Denarius Moore	wr	1.1981250	-39.9009375	0.000000
## 300	Trey Williams	rb	1.1840625	-73.9631250	0.000000
## 649	Russell Shepard	wr	1.1418750	-39.9571875	0.000000
## 302	Corey Grant	rb	1.1418750	-74.0053125	0.000000
## 648	Greg Little	wr	1.1334375	-39.9656250	0.000000
## 303	Shaun Draughn	rb	1.1000000	-74.0471875	0.000000
## 3410	Brandon McManus	k	1.0687500	-83.0812500	0.000000
## 98	Matt Moore	qb	1.0485000	-146.8890000	0.000000
## 301	Kenjon Barner	rb	1.0321875	-74.1150000	0.000000
## 297	Alfonso Smith	rb	1.0181250	-74.1290625	0.000000
## 99	Josh Johnson	qb	0.9675000	-146.9700000	0.000000
## 436	E.J. Bibbs	te	0.9000000	-31.1625000	0.000000
## 433	Dominique Jones	te	0.8915625	-31.1709375	0.000000
## 651	Tre McBride	wr	0.8915625	-40.2075000	0.000000
## 432	C.J. Uzomah	te	0.8859375	-31.1765625	0.000000
## 653	Arrelious Benn	wr	0.8493750	-40.2496875	0.000000
## 434	Nick Boyle	te	0.8212500	-31.2412500	0.000000
## 654	Chuck Jacobs	wr	0.8043750	-40.2946875	0.000000
## 437	Richard Gordon	te	0.7987500	-31.2637500	0.000000
## 652	Griff Whalen	wr	0.7959375	-40.3031250	0.000000
## 435	Nick O'Leary	te	0.7931250	-31.2693750	0.000000
## 304	Jarryd Hayne	rb	0.7931250	-74.3540625	0.000000
## 100	Taylor Yates	qb	0.6716250	-147.2658750	0.000000
## 438	Steve Maneri	te	0.6215625	-31.4409375	0.000000
## 439	Anthony Denham	te	0.5540625	-31.5084375	0.000000
## 101	Matt McGloin	qb	0.5175000	-147.4200000	0.000000
## 655	James Wright	wr	0.5062500	-40.5928125	0.000000
## 102	Tarvaris Jackson	qb	0.3510000	-147.5865000	0.000000
## 103	AJ McCarron	qb	0.2925000	-147.6450000	0.000000
## 306	Trey Millard	rb	0.2812500	-74.8659375	0.000000
## 104	Dan Orlovsky	qb	0.2778750	-147.6596250	0.000000
## 305	Aaron Ripkowski	rb	0.2700000	-74.8771875	0.000000
## 656	Jacoby Ford	wr	0.2334375	-40.8656250	0.000000
## 307	Jordan Campbell	rb	0.2250000	-74.9221875	0.000000

```
## 308      Nikita Whitlock  rb  0.2218750 -74.9253125  0.000000
## 309      Joey Iosefa    rb  0.1631250 -74.9840625  0.000000
## 310      Malcolm Brown  rb  0.1378125 -75.0093750  0.000000
## 311      Braylon Heard  rb  0.1312500 -75.0159375  0.000000
## 441      Malcolm Johnson te  0.1125000 -31.9500000  0.000000
## 106      Bryce Petty   qb  0.1102500 -147.8272500  0.000000
## 105      Ryan Lindley  qb  0.1035000 -147.8340000  0.000000
## 440      Asante Cleveland te 0.0928125 -31.9696875  0.000000
## 312      Tony Creecy   rb  0.0843750 -75.0628125  0.000000
## 313      Dion Lewis    rb  0.0843750 -75.0628125  0.000000
## 107      Tom Savage    qb  0.0000000 -147.9375000  0.000000
## 108      Chandler Harnish qb 0.0000000 -147.9375000  0.000000
## 109      Case Keenum   qb  0.0000000 -147.9375000  0.000000
## 110      Sean Renfree  qb  0.0000000 -147.9375000  0.000000
## 111      Matt Simms    qb  0.0000000 -147.9375000  0.000000
## 112      Joe Webb      qb  0.0000000 -147.9375000  0.000000
## 113      Matt Barkley  qb  0.0000000 -147.9375000  0.000000
## 114      Charlie Whitehurst qb 0.0000000 -147.9375000  0.000000
## 115      Landry Jones  qb  0.0000000 -147.9375000  0.000000
## 116      Ricky Stanzi  qb  0.0000000 -147.9375000  0.000000
## 117      Tim Tebow     qb  0.0000000 -147.9375000  0.000000
## 118      Mike Kafka    qb  0.0000000 -147.9375000  0.000000
## 119      Logan Thomas  qb  0.0000000 -147.9375000  0.000000
## 120      Brett Hundley qb  0.0000000 -147.9375000  0.000000
## 121      Garrett Grayson qb 0.0000000 -147.9375000  0.000000
## 314      Pierre Thomas rb  0.0000000 -75.1471875  0.000000
## 315      Ahmad Bradshaw rb 0.0000000 -75.1471875  0.000000
## 316      Tyler Gaffney rb  0.0000000 -75.1471875  0.000000
## 442      Richie Brockel te -0.0787500 -32.1412500  0.000000
```

```
dim(buildValues(1))
```

```
## [1] 656 5
```

```
##print function
```

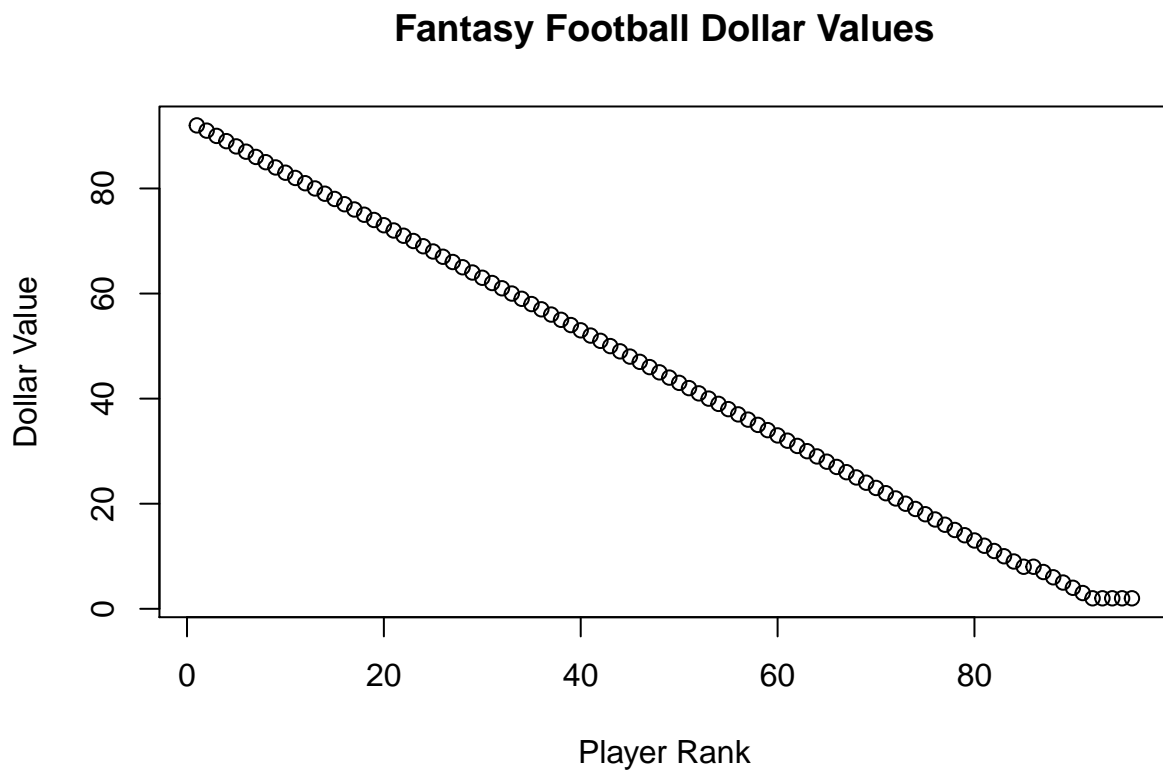
```
print.league <- function(league){
  x <- as.data.frame(cbind(buildValues(league)$PlayerName,buildValues(league)$value))
  names(x) <- c("PlayerName","DollarValue")
  x <- x[which(x["DollarValue"] != 0),]
  x
}
```

```
##plot function
```

```
plot.league <- function(league){
  x <- as.data.frame(cbind(buildValues(league)$PlayerName,buildValues(league)$value))
  names(x) <- c("PlayerName","DollarValue")
  x <- x[which(x["DollarValue"] != 0),]
  x <- x[order(x["DollarValue"],decreasing=TRUE),]
  plot(c(1:nrow(x)),x[, "DollarValue"],xlab="Player Rank",ylab="Dollar Value",main="Fantasy Football Dollars")
}
```



```
plot(1)
```



```
## box plot
```

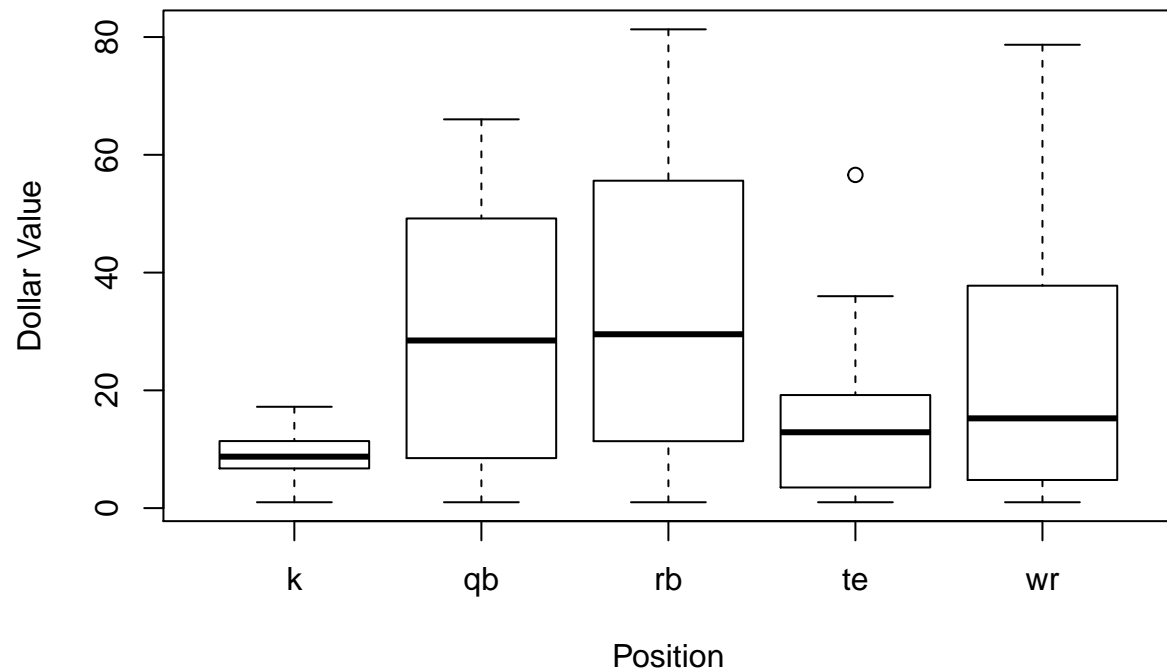
```
boxplot.league <- function(league){
```

```
    boxplot(buildValues(league)$value[which(buildValues(league)$value>0)]~buildValues(league)$pos[which
```

```
}]
```

```
boxplot(1)
```

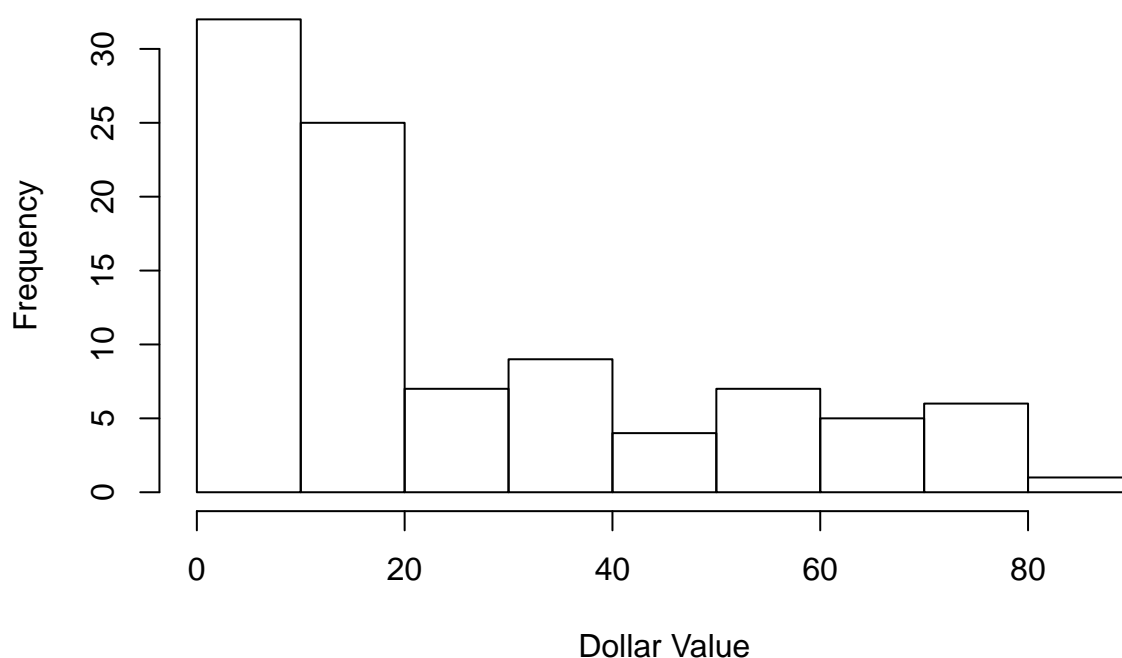
Fantasy Football Dollar Values



```
##histogram
```

```
hist.league <- function(league){  
  hist(buildValues(league)$value[which(buildValues(league)$value>0)],xlab="Dollar Value",ylab="Frequency"  
}  
hist(1)
```

Fantasy Football Dollar Values



Problem 3:

```
##add noise function
```

```
addNoise <- function(league,residuals,nsim,seed=NA){
  projected_cols <- c('fg','fga','xpt','pass_att','pass_cmp','pass_yds','pass_tds','pass_ints',
    'rush_att','rush_yds','rush_tds','rec_att','rec_yds','rec_tds','fumbles')

  newstats_qb <- league$stats[which(league$stats["pos"]=="qb"),]
  newstats_k <- league$stats[which(league$stats["pos"]=="k"),]
  newstats_wr <- league$stats[which(league$stats["pos"]=="wr"),]
  newstats_te <- league$stats[which(league$stats["pos"]=="te"),]
  newstats_rb <- league$stats[which(league$stats["pos"]=="rb"),]

  sims_qb <- cbind(league$stats[which(league$stats["pos"]=="qb"),1],matrix(NA,length(league$stats[which(
  sims_k <- cbind(league$stats[which(league$stats["pos"]=="k"),1],matrix(NA,length(league$stats[which(
  sims_rb <- cbind(league$stats[which(league$stats["pos"]=="rb"),1],matrix(NA,length(league$stats[which(
  sims_wr <- cbind(league$stats[which(league$stats["pos"]=="wr"),1],matrix(NA,length(league$stats[which(
  sims_te <- cbind(league$stats[which(league$stats["pos"]=="te"),1],matrix(NA,length(league$stats[which(
```

```

if (is.na(seed)==FALSE) set.seed(seed)

for(j in seq(nsim)){
  for(i in seq(nrow(league$stats[which(league$stats["pos"]=="qb"),]))){

    newstats_qb[i,projected_cols] <- newstats_qb[i,projected_cols] - residuals$qb[sample(c(1:nrow(residuals$)),1)]

  }

  for(i in seq(nrow(league$stats[which(league$stats["pos"]=="k"),]))){

    newstats_k[i,projected_cols] <- newstats_k[i,projected_cols] - residuals$k[sample(c(1:nrow(residuals$)),1)]

  }

  for(i in seq(nrow(league$stats[which(league$stats["pos"]=="rb"),]))){

    newstats_rb[i,projected_cols] <- newstats_rb[i,projected_cols] - residuals$rb[sample(c(1:nrow(residuals$)),1)]

  }

  for(i in seq(nrow(league$stats[which(league$stats["pos"]=="wr"),]))){

    newstats_wr[i,projected_cols] <- newstats_wr[i,projected_cols] - residuals$wr[sample(c(1:nrow(residuals$)),1)]

  }

  for(i in seq(nrow(league$stats[which(league$stats["pos"]=="te"),]))){

    newstats_te[i,projected_cols] <- newstats_te[i,projected_cols] - residuals$te[sample(c(1:nrow(residuals$)),1)]

  }

  leaguenew_qb <- league
  leaguenew_qb$stats <- newstats_qb
  sims_qb[,j+1] <- as.numeric(buildValues(leaguenew_qb)$value)

  leaguenew_k <- league
  leaguenew_k$stats <- newstats_k
  sims_k[,j+1] <- buildValues(leaguenew_k)$value

  leaguenew_rb <- league
  leaguenew_rb$stats <- newstats_rb
  sims_rb[,j+1] <- buildValues(leaguenew_rb)$value

  leaguenew_te <- league
  leaguenew_te$stats <- newstats_te
  sims_te[,j+1] <- buildValues(leaguenew_te)$value

  leaguenew_wr <- league
  leaguenew_wr$stats <- newstats_wr
  sims_wr[,j+1] <- buildValues(leaguenew_wr)$value

```

```

}

sims_qb <- as.data.frame(sims_qb)
colnames(sims_qb) <- c("PlayerName",c(1:nsim))
sims_k <- as.data.frame(sims_k)
colnames(sims_k) <- c("PlayerName",c(1:nsim))
sims_rb <- as.data.frame(sims_rb)
colnames(sims_rb) <- c("PlayerName",c(1:nsim))
sims_wr <- as.data.frame(sims_wr)
colnames(sims_wr) <- c("PlayerName",c(1:nsim))
sims_te <- as.data.frame(sims_te)
colnames(sims_te) <- c("PlayerName",c(1:nsim))

sims <- list(sims_k,sims_qb,sims_rb,sims_wr,sims_te)
names(sims) <- c("k","qb","rb","wr","te")

class(sims) <- "league"

return(sims)
}

addNoise_test <- addNoise(league=1,residuals=fantasyresidual_allpositions,nsim=3,seed=144)

##quantile function

quantile.league <- function(league_sim,probs=c(.25,.5,.75)){

  quantiles_k <- matrix(NA,nrow(league_sim$k),length(probs))
  quantiles_qb <- matrix(NA,nrow(league_sim$qb),length(probs))
  quantiles_rb <- matrix(NA,nrow(league_sim$rb),length(probs))
  quantiles_wr <- matrix(NA,nrow(league_sim$wr),length(probs))
  quantiles_te <- matrix(NA,nrow(league_sim$te),length(probs))

  for(i in seq(nrow(league_sim$k))){
    quantiles_k[i,] <- quantile(as.numeric(league_sim$k[i,2:ncol(league_sim$k)]),probs=probs)
  }

  for(i in seq(nrow(league_sim$qb))){
    quantiles_qb[i,] <- quantile(as.numeric(league_sim$qb[i,2:ncol(league_sim$qb)]),probs=probs)
  }

}

```

```

for(i in seq(nrow(leaque_sim$rb))){
  quantiles_rb[i,] <- quantile(as.numeric(leaque_sim$rb[i,2:ncol(leaque_sim$rb)]),probs=probs)
}

for(i in seq(nrow(leaque_sim$wr))){
  quantiles_wr[i,] <- quantile(as.numeric(leaque_sim$wr[i,2:ncol(leaque_sim$wr)]),probs=probs)
}

for(i in seq(nrow(leaque_sim$te))){
  quantiles_te[i,] <- quantile(as.numeric(leaque_sim$te[i,2:ncol(leaque_sim$te)]),probs=probs)
}

quantiles <- list(quantiles_k,quantiles_qb,quantiles_rb,quantiles_wr,quantiles_te)

names(quantiles) <- c("k","qb","rb","wr","te")

return(quantiles)
}

quantile_test <- quantile(addNoise_test)

## conf interval function

conf.interval <- function(leaque_sim,probs=c(.25,.5,.75),posReq){

  leaque_quantiles<-quantile.league(leaque_sim,probs)

  leaque_quantiles$k <- leaque_quantiles$k[1:posReq$k,]
  if (is.null(dim(leaque_quantiles$k))==FALSE) leaque_quantiles$k <- leaque_quantiles$k[order(-leaque_q

  leaque_quantiles$qb <- leaque_quantiles$qb[1:posReq$qb,]
  if (is.null(dim(leaque_quantiles$qb))==FALSE) leaque_quantiles$qb <- leaque_quantiles$qb[order(-lea

  leaque_quantiles$rb <- leaque_quantiles$rb[1:posReq$rb,]
  if (is.null(dim(leaque_quantiles$rb))==FALSE) leaque_quantiles$rb <- leaque_quantiles$rb[order(-lea

  leaque_quantiles$wr <- leaque_quantiles$wr[1:posReq$wr,]
  if (is.null(dim(leaque_quantiles$wr))==FALSE) leaque_quantiles$wr <- leaque_quantiles$wr[order(-lea

  leaque_quantiles$te <- leaque_quantiles$te[1:posReq$te,]
  if (is.null(dim(leaque_quantiles$te))==FALSE) leaque_quantiles$te <- leaque_quantiles$te[order(-lea

  x <- list(leaque_quantiles$k,leaque_quantiles$qb,leaque_quantiles$rb,leaque_quantiles$wr,leaque_quant

```

```

names(x) <- c("k","qb","rb","wr","te")

class(x) <- "league.conf.interval"
return(x)
}

confinterval_test <- conf.interval(addNoise_test,posReq=pos)

##plot function

plot.league.conf.interval <- function(league.conf.interval,position){

  if (position=="k") x <- league.conf.interval[1]
  if (position=="qb") x <- league.conf.interval[2]
  if (position=="rb") x <- league.conf.interval[3]
  if (position=="wr") x <- league.conf.interval[4]
  if (position=="te") x <- league.conf.interval[5]

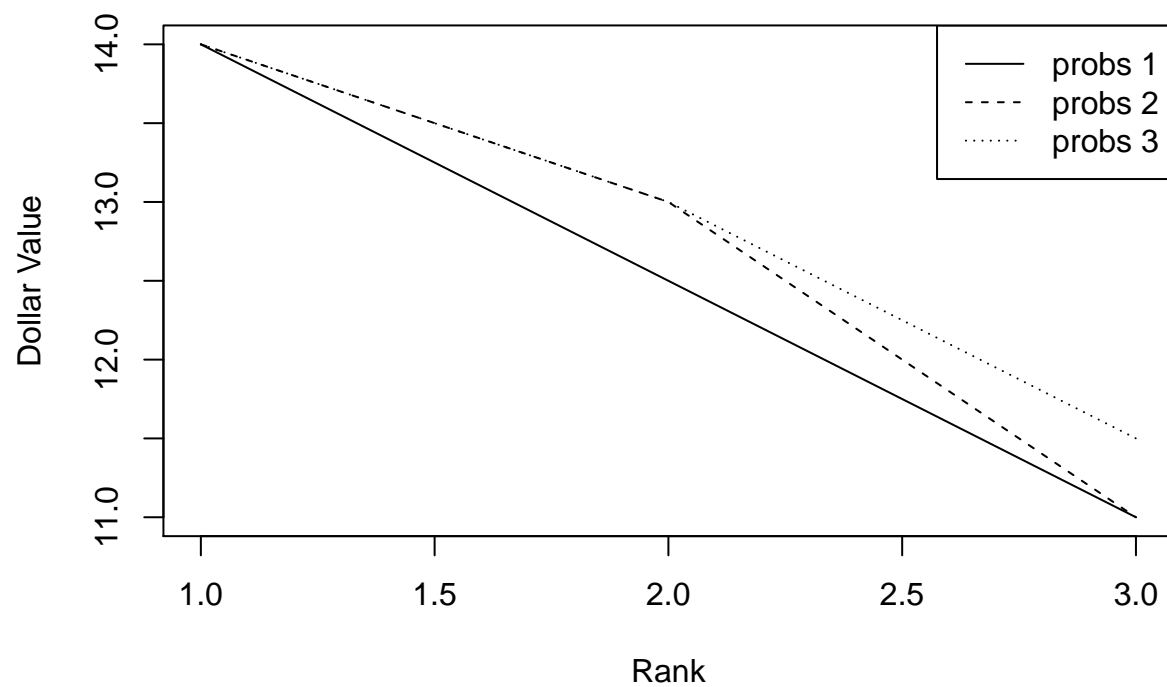
  x <- as.data.frame(x)

  if(ncol(x)==1){
    plot(x[1,],col="white",ylim=c(min(x),max(x)),xlab="Rank",ylab="Dollar Value")
    for(i in seq(nrow(x))){
      points(x[i,])
    }
  }

  if (ncol(x)>1){
    plot(x[,1],ylim=c(min(x),max(x)),col="white",xlab="Rank",ylab="Dollar Value")
    for(i in seq(ncol(x))){
      lines(x[,i],lty=i)
    }
    legend("topright",c(paste("probs",c(1:ncol(x)))),lty=c(1:ncol(x)))
  }
}

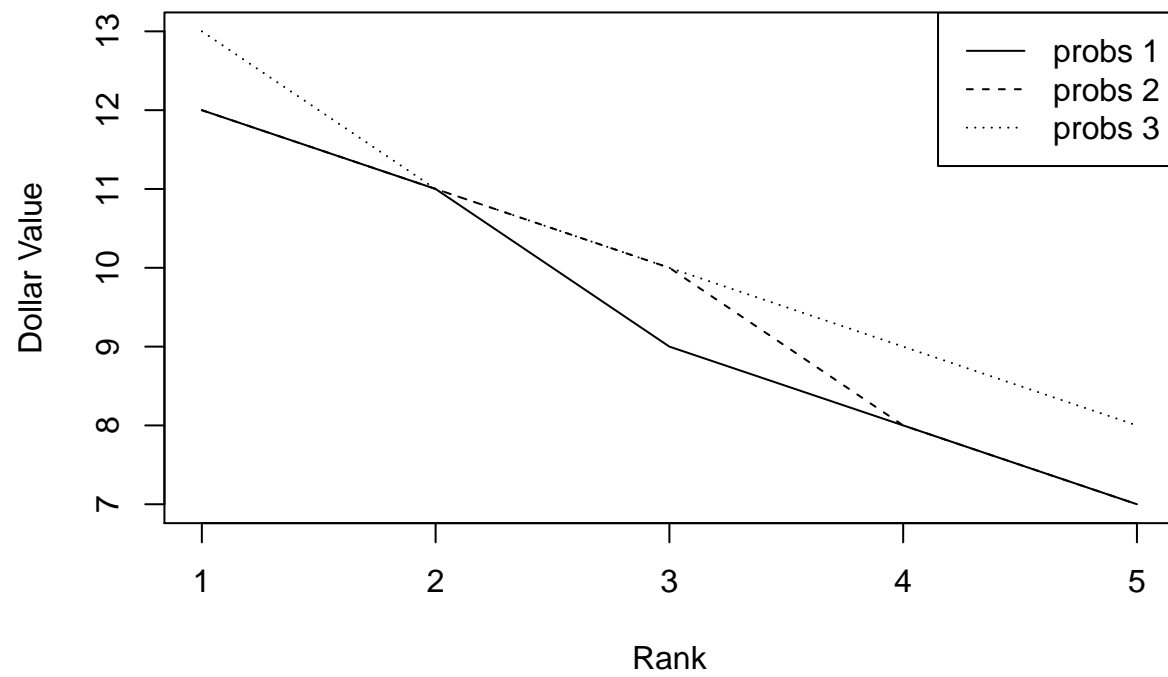
plot_test <- plot(confinterval_test,position="wr")

```

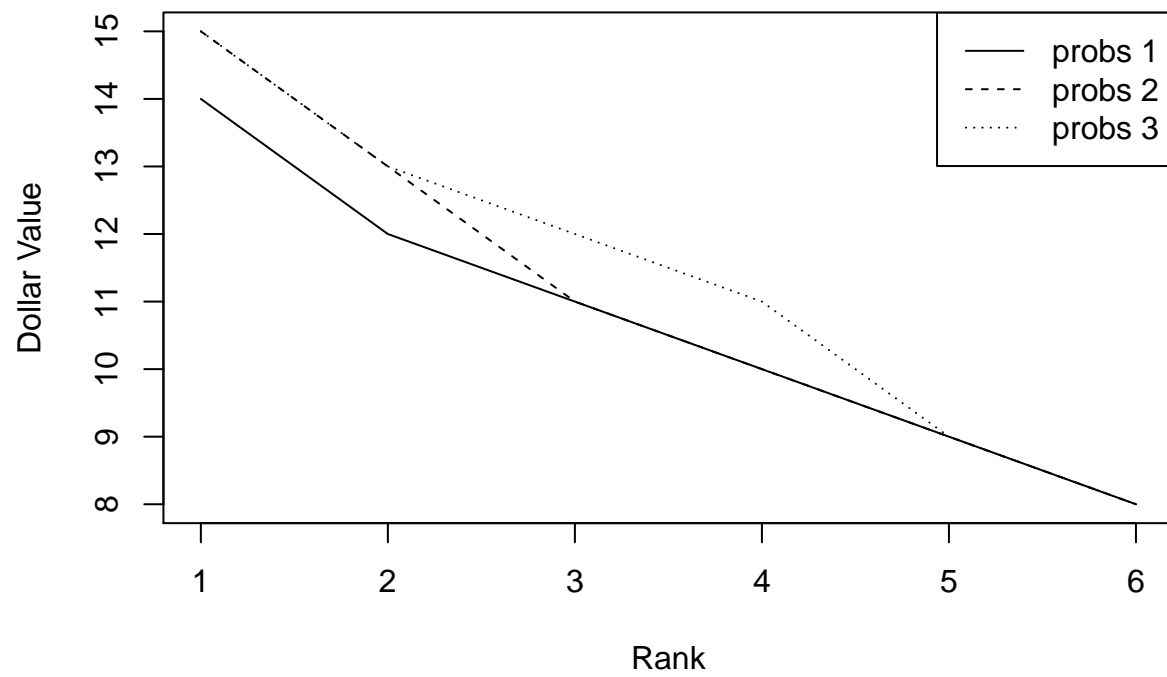


```
##testing
pos_test <- list(qb=5, rb=6, wr=12, te=6, k=5)

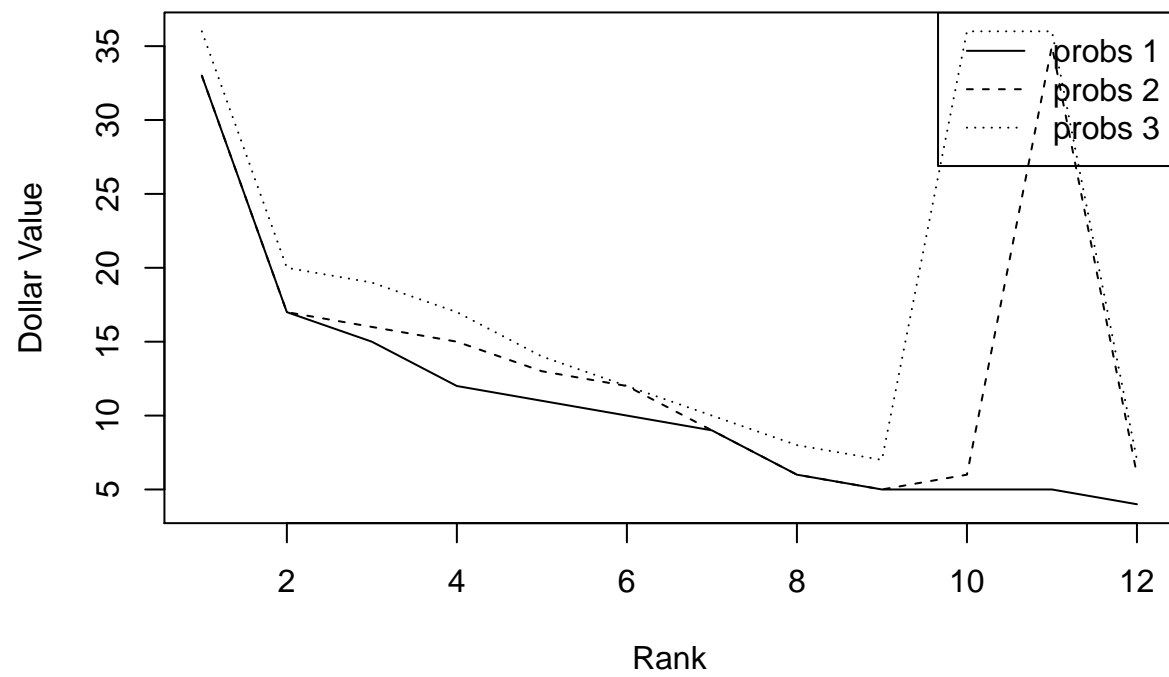
l1 <- addNoise(1,fantasyresidual_allpositions,5)
quantile_l1 <- quantile(l1)
ci <- conf.interval(l1,posReq=pos_test)
plot(ci, 'qb')
```

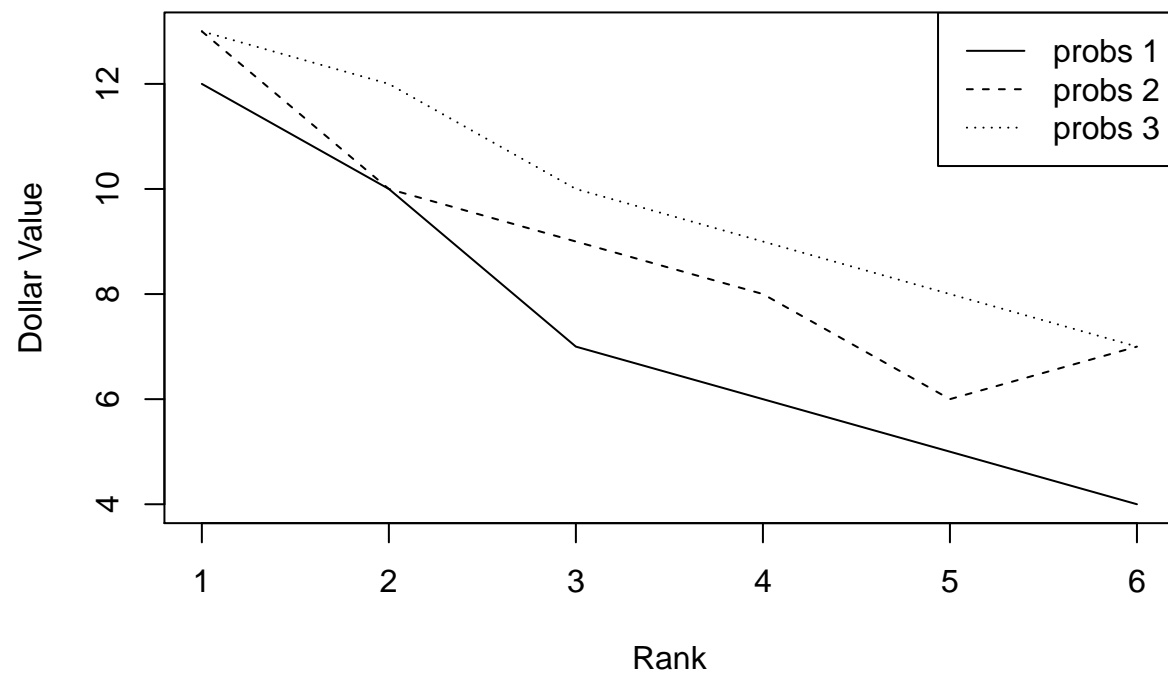
```
plot(ci, 'rb')
```



```
plot(ci, 'wr')
```



```
plot(ci, 'te')
```



```
plot(ci, 'k')
```

